

Annex 1C. Fuel Combustion in Industrial, Commercial, Residential, Agricultural and Other Sectors

(IPCC 1A1b, 1A2, 1A4 & 1A5)

to the Technical Support Document for California's 2000-2014 Greenhouse Gas Emission Inventory

Back to main document: www.arb.ca.gov/cc/inventory/doc/methods_00-14/ghg_inventory_00-14_technical_support_document.pdf

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

IPCC category = 1A1b — Fuel Combustion Activities - Energy Industries - Petroleum Refining

► Sector = Petroleum Refining and Hydrogen Production

Activity = Fuel combustion - Associated gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------------|----------|---------------------|-----------------------|
| Fuel combustion - Associated gas | 2000 | 0 scf | TSD Refineries |
| Fuel combustion - Associated gas | 2001 | 0 scf | TSD Refineries |
| Fuel combustion - Associated gas | 2002 | 0 scf | TSD Refineries |
| Fuel combustion - Associated gas | 2003 | 0 scf | TSD Refineries |
| Fuel combustion - Associated gas | 2004 | 0 scf | TSD Refineries |
| Fuel combustion - Associated gas | 2005 | 0 scf | TSD Refineries |
| Fuel combustion - Associated gas | 2006 | 0 scf | TSD Refineries |
| Fuel combustion - Associated gas | 2007 | 0 scf | TSD Refineries |
| Fuel combustion - Associated gas | 2008 | 0 scf | TSD Refineries |
| Fuel combustion - Associated gas | 2009 | 0 scf | ARB, 2015b |
| Fuel combustion - Associated gas | 2010 | 0 scf | ARB, 2015b |
| Fuel combustion - Associated gas | 2011 | 804,455,446 scf | ARB, 2015b |
| Fuel combustion - Associated gas | 2012 | 91,332,000 scf | ARB, 2015b |
| Fuel combustion - Associated gas | 2013 | 97,338,900 scf | ARB, 2015b |
| Fuel combustion - Associated gas | 2014 | 76,211,034 scf | ARB, 2015b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2001 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2002 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2003 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2004 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2005 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2006 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2007 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2008 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2009 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2010 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2011 | 6.761E-03 g / btu | TSD Electricity / CHP |
| Fuel CO2 emission | 2012 | 0.0642 g / btu | TSD Electricity / CHP |
| Fuel CO2 emission | 2013 | 0.0651 g / btu | Wang, 2007 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|-----------------------|
| Fuel CO2 emission | 2014 | 0.0651 g / btu | Wang, 2007 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 2000 | 808 btu / scf | Wang, 2007 |
| Heat content | 2001 | 808 btu / scf | Wang, 2007 |
| Heat content | 2002 | 808 btu / scf | Wang, 2007 |
| Heat content | 2003 | 808 btu / scf | Wang, 2007 |
| Heat content | 2004 | 808 btu / scf | Wang, 2007 |
| Heat content | 2005 | 808 btu / scf | Wang, 2007 |
| Heat content | 2006 | 808 btu / scf | Wang, 2007 |
| Heat content | 2007 | 808 btu / scf | Wang, 2007 |
| Heat content | 2008 | 808 btu / scf | Wang, 2007 |
| Heat content | 2009 | 808 btu / scf | Wang, 2007 |
| Heat content | 2010 | 808 btu / scf | Wang, 2007 |
| Heat content | 2011 | 808 btu / scf | Wang, 2007 |
| Heat content | 2012 | 770 btu / scf | TSD Electricity / CHP |
| Heat content | 2013 | 808 btu / ton | Wang, 2007 |
| Heat content | 2014 | 808 btu / ton | Wang, 2007 |

Activity = Fuel combustion - Catalyst coke

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------------|----------|---------------------|---------------|
| Fuel combustion - Catalyst coke | 2000 | 2,197,670 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2001 | 2,190,093 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2002 | 2,213,212 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2003 | 2,296,772 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2004 | 2,333,265 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2005 | 2,334,935 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2006 | 2,340,795 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2007 | 2,170,609 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2008 | 1,952,912 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2009 | 2,292,797 ton | ARB, 2015b |
| Fuel combustion - Catalyst coke | 2010 | 2,149,260 ton | ARB, 2015b |
| Fuel combustion - Catalyst coke | 2011 | 2,345,468 ton | ARB, 2015b |
| Fuel combustion - Catalyst coke | 2012 | 2,368,780 ton | ARB, 2015b |
| Fuel combustion - Catalyst coke | 2013 | 2,283,696 ton | ARB, 2015b |
| Fuel combustion - Catalyst coke | 2014 | 2,264,635 ton | ARB, 2015b |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.102 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.600E-06 g / btu | USEPA, 2012b |
| Heat content | 2000 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 24,800,000 btu / ton | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

Activity = Fuel combustion - Digester gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|--------------------------------|----------|---------------------|----------------|
| Fuel combustion - Digester gas | 2000 | 4,204,448 scf | TSD Refineries |
| Fuel combustion - Digester gas | 2001 | 4,299,930 scf | TSD Refineries |
| Fuel combustion - Digester gas | 2002 | 4,328,818 scf | TSD Refineries |
| Fuel combustion - Digester gas | 2003 | 4,417,696 scf | TSD Refineries |
| Fuel combustion - Digester gas | 2004 | 4,294,317 scf | TSD Refineries |
| Fuel combustion - Digester gas | 2005 | 4,437,042 scf | TSD Refineries |
| Fuel combustion - Digester gas | 2006 | 4,539,691 scf | TSD Refineries |
| Fuel combustion - Digester gas | 2007 | 4,497,931 scf | TSD Refineries |
| Fuel combustion - Digester gas | 2008 | 4,438,279 scf | TSD Refineries |
| Fuel combustion - Digester gas | 2009 | 4,121,176 scf | ARB, 2015b |
| Fuel combustion - Digester gas | 2010 | 19,253,105 scf | ARB, 2015b |
| Fuel combustion - Digester gas | 2011 | 62,978,881 scf | ARB, 2015b |
| Fuel combustion - Digester gas | 2012 | 0 scf | ARB, 2015b |
| Fuel combustion - Digester gas | 2013 | 35,052,535 scf | ARB, 2015b |
| Fuel combustion - Digester gas | 2014 | 42,934,594 scf | ARB, 2015b |
| Fuel CH4 emission | 2000 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.200E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0521 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0521 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.300E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2008 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.300E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.300E-07 g / btu | USEPA, 2012b |
| Heat content | 2000 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2001 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2002 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2003 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2004 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2005 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2006 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2007 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2008 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2009 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2010 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2011 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2012 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2013 | 841 btu / scf | USEPA, 2012b |
| Heat content | 2014 | 841 btu / scf | USEPA, 2012b |

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 2000 | 66,402 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2001 | 1,697,178 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2002 | 97,104 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2003 | 164,808 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2004 | 158,970 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2005 | 6,500,340 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2006 | 3,285,996 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2007 | 2,643,774 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2008 | 5,055,288 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2009 | 1,001,114 gal | ARB, 2015b |
| Fuel combustion - Distillate | 2010 | 1,453,862 gal | ARB, 2015b |
| Fuel combustion - Distillate | 2011 | 128,832 gal | ARB, 2015b |
| Fuel combustion - Distillate | 2012 | 130,948 gal | ARB, 2015b |
| Fuel combustion - Distillate | 2013 | 131,113 gal | ARB, 2015b |
| Fuel combustion - Distillate | 2014 | 135,643 gal | ARB, 2015b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0729 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.072 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2012 | 0.074 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2013 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.074 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 2000 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 138,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Ethanol

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------|----------|---------------------|----------------|
| Fuel combustion - Ethanol | 2000 | 0 gal | TSD Refineries |
| Fuel combustion - Ethanol | 2001 | 0 gal | TSD Refineries |
| Fuel combustion - Ethanol | 2002 | 0 gal | TSD Refineries |
| Fuel combustion - Ethanol | 2003 | 0 gal | TSD Refineries |
| Fuel combustion - Ethanol | 2004 | 0 gal | TSD Refineries |
| Fuel combustion - Ethanol | 2005 | 0 gal | TSD Refineries |
| Fuel combustion - Ethanol | 2006 | 0 gal | TSD Refineries |
| Fuel combustion - Ethanol | 2007 | 0 gal | TSD Refineries |
| Fuel combustion - Ethanol | 2008 | 0 gal | TSD Refineries |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|---------------------------|------|-------------------|--------------|
| Fuel combustion - Ethanol | 2009 | 0 gal | ARB, 2015b |
| Fuel combustion - Ethanol | 2010 | 0 gal | ARB, 2015b |
| Fuel combustion - Ethanol | 2011 | 40,193 gal | ARB, 2015b |
| Fuel combustion - Ethanol | 2012 | 59,500 gal | ARB, 2015b |
| Fuel combustion - Ethanol | 2013 | 0 gal | ARB, 2015b |
| Fuel combustion - Ethanol | 2014 | 0 gal | ARB, 2015b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0684 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 2000 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 84,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|------------------|--------------|
| Heat content | 2004 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 84,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 84,000 btu / ton | USEPA, 2012b |

Activity = Fuel combustion - Gasoline

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|----------------|
| Fuel combustion - Gasoline | 2000 | 0 gal | TSD Refineries |
| Fuel combustion - Gasoline | 2001 | 0 gal | TSD Refineries |
| Fuel combustion - Gasoline | 2002 | 0 gal | TSD Refineries |
| Fuel combustion - Gasoline | 2003 | 0 gal | TSD Refineries |
| Fuel combustion - Gasoline | 2004 | 0 gal | TSD Refineries |
| Fuel combustion - Gasoline | 2005 | 0 gal | TSD Refineries |
| Fuel combustion - Gasoline | 2006 | 0 gal | TSD Refineries |
| Fuel combustion - Gasoline | 2007 | 0 gal | TSD Refineries |
| Fuel combustion - Gasoline | 2008 | 0 gal | TSD Refineries |
| Fuel combustion - Gasoline | 2009 | 0 gal | ARB, 2015b |
| Fuel combustion - Gasoline | 2010 | 0 gal | ARB, 2015b |
| Fuel combustion - Gasoline | 2011 | 382,692 gal | ARB, 2015b |
| Fuel combustion - Gasoline | 2012 | 116,459 gal | ARB, 2015b |
| Fuel combustion - Gasoline | 2013 | 116,863 gal | ARB, 2015b |
| Fuel combustion - Gasoline | 2014 | 183,783 gal | ARB, 2015b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0709 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0709 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0717 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0713 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2012 | 0.0702 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0702 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0702 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 2000 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 125,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - LPG

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|---------------|
| Fuel combustion - LPG | 2000 | 87,078,096 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2001 | 118,670,202 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2002 | 47,484,276 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2003 | 89,020,386 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2004 | 68,164,740 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2005 | 71,666,784 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2006 | 42,615,720 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2007 | 40,738,488 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2008 | 42,381,360 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2009 | 28,274 gal | ARB, 2015b |
| Fuel combustion - LPG | 2010 | 31,545 gal | ARB, 2015b |
| Fuel combustion - LPG | 2011 | 427,575 gal | ARB, 2015b |
| Fuel combustion - LPG | 2012 | 98,542 gal | ARB, 2015b |
| Fuel combustion - LPG | 2013 | 202,699 gal | ARB, 2015b |
| Fuel combustion - LPG | 2014 | 180,918 gal | ARB, 2015b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0628 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.063 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 2000 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 92,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 2000 | 57,998,794,886 scf | O'Brien, 2010 |
| Fuel combustion - Natural gas | 2001 | 53,049,527,402 scf | O'Brien, 2010 |
| Fuel combustion - Natural gas | 2002 | 58,430,652,609 scf | O'Brien, 2010 |
| Fuel combustion - Natural gas | 2003 | 58,820,221,006 scf | O'Brien, 2010 |
| Fuel combustion - Natural gas | 2004 | 59,408,192,510 scf | O'Brien, 2010 |
| Fuel combustion - Natural gas | 2005 | 60,591,132,762 scf | O'Brien, 2010 |
| Fuel combustion - Natural gas | 2006 | 62,169,972,294 scf | O'Brien, 2010 |
| Fuel combustion - Natural gas | 2007 | 64,525,493,531 scf | O'Brien, 2010 |
| Fuel combustion - Natural gas | 2008 | 65,864,044,221 scf | O'Brien, 2010 |
| Fuel combustion - Natural gas | 2009 | 66,343,563,681 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2010 | 73,442,459,900 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2011 | 51,861,299,767 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2012 | 48,127,728,904 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2013 | 51,285,235,178 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2014 | 51,308,039,147 scf | ARB, 2015b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0555 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.0509 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2011 | 0.0513 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

Activity = Fuel combustion - Petroleum coke

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------------|----------|---------------------|-----------------------------------|
| Fuel combustion - Petroleum coke | 2000 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2001 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2002 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2003 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2004 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2005 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2006 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2007 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2008 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2009 | 87,687 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2010 | 57,471 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2011 | 79,167 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2012 | 0 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2013 | 0.52 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2014 | 1.03 ton | ARB, 2015b |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.102 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel CO2 emission | 2001 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.102 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.600E-06 g / btu | USEPA, 2012b |
| Heat content | 2000 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 24,800,000 btu / ton | USEPA, 2012b |

Activity = Fuel combustion - Process gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Process gas | 2000 | 35,709,079,774 scf | TSD Refineries |
| Fuel combustion - Process gas | 2001 | 36,520,016,675 scf | TSD Refineries |
| Fuel combustion - Process gas | 2002 | 36,765,370,730 scf | TSD Refineries |
| Fuel combustion - Process gas | 2003 | 37,520,224,622 scf | TSD Refineries |
| Fuel combustion - Process gas | 2004 | 36,472,351,429 scf | TSD Refineries |
| Fuel combustion - Process gas | 2005 | 37,684,535,891 scf | TSD Refineries |
| Fuel combustion - Process gas | 2006 | 38,556,346,967 scf | TSD Refineries |
| Fuel combustion - Process gas | 2007 | 38,201,674,415 scf | TSD Refineries |
| Fuel combustion - Process gas | 2008 | 37,695,039,317 scf | TSD Refineries |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|--------------------|--------------|
| Fuel combustion - Process gas | 2009 | 35,001,832,503 scf | ARB, 2015b |
| Fuel combustion - Process gas | 2010 | 12,683,016,950 scf | ARB, 2015b |
| Fuel combustion - Process gas | 2011 | 615,170,907 scf | ARB, 2015b |
| Fuel combustion - Process gas | 2012 | 70,570,209 scf | ARB, 2015b |
| Fuel combustion - Process gas | 2013 | 211,136,071 scf | ARB, 2015b |
| Fuel combustion - Process gas | 2014 | 205,803,999 scf | ARB, 2015b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0177 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2001 | 0.0177 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2002 | 0.0177 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2003 | 0.0177 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2004 | 0.0177 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2005 | 0.0177 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2006 | 0.0177 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2007 | 0.0177 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2008 | 0.0177 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2009 | 0.0177 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.0465 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2011 | 5.900E-03 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2012 | 0.0674 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2013 | 0.0177 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0177 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 2000 | 529 btu / scf | ARB, 2015b |
| Heat content | 2001 | 529 btu / scf | ARB, 2015b |
| Heat content | 2002 | 529 btu / scf | ARB, 2015b |
| Heat content | 2003 | 529 btu / scf | ARB, 2015b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| Heat content | 2004 | 529 btu / scf | ARB, 2015b |
|--|----------|---------------------|---------------|
| Heat content | 2005 | 529 btu / scf | ARB, 2015b |
| Heat content | 2006 | 529 btu / scf | ARB, 2015b |
| Heat content | 2007 | 529 btu / scf | ARB, 2015b |
| Heat content | 2008 | 529 btu / scf | ARB, 2015b |
| Heat content | 2009 | 529 btu / scf | ARB, 2015b |
| Heat content | 2010 | 529 btu / scf | ARB, 2015b |
| Heat content | 2011 | 529 btu / scf | ARB, 2015b |
| Heat content | 2012 | 529 btu / scf | ARB, 2015b |
| Heat content | 2013 | 529 btu / scf | ARB, 2015b |
| Heat content | 2014 | 529 btu / scf | ARB, 2015b |
| Activity = Fuel combustion - Refinery gas | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Refinery gas | 2000 | 183,368,792,074 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2001 | 188,977,167,560 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2002 | 191,020,407,193 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2003 | 193,676,290,398 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2004 | 184,934,738,764 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2005 | 190,357,503,027 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2006 | 187,165,501,435 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2007 | 184,601,388,830 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2008 | 180,647,828,261 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2009 | 170,966,612,718 scf | ARB, 2015b |
| Fuel combustion - Refinery gas | 2010 | 216,695,545,073 scf | ARB, 2015b |
| Fuel combustion - Refinery gas | 2011 | 188,402,940,131 scf | ARB, 2015b |
| Fuel combustion - Refinery gas | 2012 | 181,160,119,904 scf | ARB, 2015b |
| Fuel combustion - Refinery gas | 2013 | 185,134,053,123 scf | ARB, 2015b |
| Fuel combustion - Refinery gas | 2014 | 186,898,322,055 scf | ARB, 2015b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.059 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.059 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.059 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.059 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.059 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.059 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.059 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.059 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.059 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0604 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.0555 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2011 | 0.0531 g / btu | ARB, 2015b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2012 | 0.056 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2013 | 0.059 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.059 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 2000 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2001 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2002 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2003 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2004 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2005 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2006 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2007 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2008 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2009 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2010 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2011 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2012 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2013 | 1,388 btu / scf | USEPA, 2012b |
| Heat content | 2014 | 1,388 btu / scf | USEPA, 2012b |

Activity = Fuel combustion - Residual fuel oil

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Residual fuel oil | 2000 | 160,440 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2001 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2002 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2003 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2004 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2005 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2006 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2007 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2008 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2009 | 0 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2010 | 0 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2011 | 0 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2012 | 0 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2013 | 0 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2014 | 0 gal | ARB, 2015b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0751 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 2000 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 150,000 btu / gal | USEPA, 2012b |

IPCC category = 1A2 — Fuel Combustion Activities - Manufacturing Industries and Construction**► Sector = Manufacturing : Primary Metals****Activity = Fuel combustion - Natural gas**

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Natural gas | 1990 | 13,324,260,294 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 10,459,879,329 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 6,820,550,014 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 9,022,925,039 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 11,728,539,735 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 10,716,494,933 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 11,210,174,463 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 13,184,494,121 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 13,257,071,589 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 14,689,987,806 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 15,742,474,425 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 14,467,044,651 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 16,728,790,307 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 13,956,587,824 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 13,373,464,653 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 11,088,984,958 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 8,282,149,724 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 9,532,611,479 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 9,748,933,985 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 6,476,138,511 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 8,426,811,070 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 9,106,854,657 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 9,399,304,859 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 9,359,062,707 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 9,551,025,000 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2c — Fuel Combustion Activities - Manufacturing Industries and Construction - Chemicals

► Sector = Manufacturing : Chemicals & Allied Products : Fuel Use

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 45,031,167,614 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 32,317,102,373 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 23,408,935,175 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 32,751,594,047 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 40,495,526,307 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 48,461,079,086 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 89,514,375,833 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 56,007,442,999 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 86,136,515,387 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 81,987,197,444 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 89,594,218,179 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 75,690,298,270 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 73,416,795,694 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 47,998,825,820 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 59,396,602,906 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 70,153,440,539 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 69,725,668,158 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 57,257,447,394 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 71,664,236,381 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 70,020,139,977 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 98,924,641,603 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 116,818,883,406 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 105,474,241,826 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 104,028,900,016 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 118,650,250,315 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2d — Fuel Combustion Activities - Manufacturing Industries and Construction - Pulp, Paper and Print

► Sector = Manufacturing : Printing & Publishing

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 1,459,931,984 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 1,374,724,322 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 1,165,204,277 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 1,459,889,386 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 1,703,820,481 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 1,955,279,788 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 2,025,409,094 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 2,433,869,478 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 2,417,835,775 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 2,585,450,016 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 2,493,909,100 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 2001 | 1,928,355,918 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 2,011,317,244 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 1,616,480,310 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 1,650,381,721 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 1,499,079,641 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 1,396,182,883 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 1,369,240,664 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 1,237,512,133 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 1,135,340,922 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 1,005,979,408 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 1,062,711,912 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 1,023,684,223 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 956,709,594 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 875,060,019 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Pulp & Paper

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 23,002,761,852 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 17,590,561,442 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 12,182,389,632 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 16,179,801,491 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 24,027,077,980 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 21,974,607,269 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 20,546,063,506 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 16,999,445,402 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 17,453,578,066 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 18,188,988,737 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 18,202,926,794 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 15,587,698,898 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 16,570,832,695 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 15,323,725,534 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 15,718,108,830 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 9,955,731,894 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 10,410,721,360 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 8,713,430,341 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 7,150,466,432 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 6,119,645,417 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 6,446,737,076 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 7,134,990,002 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 7,095,126,724 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 7,020,986,864 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 6,715,694,261 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2e — Fuel Combustion Activities - Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco

► Sector = Manufacturing : Food Products

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 4,462,262,051 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 3,640,593,005 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 2,564,547,695 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 4,547,763,717 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 5,656,936,070 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 4,846,283,883 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 4,237,536,142 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 4,849,643,221 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 5,358,879,020 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 5,324,659,989 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 5,658,019,214 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 8,208,998,951 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 8,629,360,394 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 6,933,816,921 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 4,679,365,331 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 4,602,380,225 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 5,647,197,903 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 5,047,198,484 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 4,515,889,838 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 4,374,802,965 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 4,984,467,258 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 4,516,912,389 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 4,560,514,097 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 4,567,950,687 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 4,536,149,611 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Food Products : Food Processing

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 53,384,545,767 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 53,646,469,962 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 49,037,864,565 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 54,915,220,316 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 55,315,916,203 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 52,156,940,698 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 50,786,466,257 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 54,750,641,934 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 53,504,600,875 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 61,677,642,891 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 63,768,905,428 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 53,521,830,565 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 57,852,050,872 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|--------------------|--------------|
| Fuel combustion - Natural gas | 2003 | 46,553,819,575 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 45,670,470,944 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 44,102,824,964 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 52,863,625,945 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 53,803,409,920 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 52,415,879,449 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 51,768,138,745 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 50,580,035,127 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 52,530,549,244 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 53,921,241,273 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 53,781,533,381 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 54,345,741,634 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Food Products : Sugar & Confections

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 9,740,446,250 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 9,296,940,991 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 6,906,534,914 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 8,002,230,220 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 9,300,173,898 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 8,649,189,869 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 5,012,262,494 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 5,195,534,953 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 7,568,601,058 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 6,744,674,954 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 7,303,295,212 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 3,343,059,675 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 3,818,388,848 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 4,086,611,360 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 7,982,227,280 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 6,995,697,602 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 2,470,587,666 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 2,012,342,880 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 1,367,884,054 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 1,097,851,471 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 1,235,728,320 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 1,322,519,526 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 1,793,363,977 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 1,745,125,451 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 1,748,323,541 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Tobacco

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 378,608 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 256,519 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 188,390 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 208,548 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 207,938 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 126,575 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 135,234 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 150,300 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 235,158 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 274,069 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 147,823 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 432,639 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 226,668 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 474,345 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 323,217 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 818,336 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 86,536 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 95,351 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 99,840 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 84,324 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 145,766 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 163,167 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 146,923 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 167,719 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 128,794 scf | Gough, 2015 |

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2f — Fuel Combustion Activities - Manufacturing Industries and Construction - Non-Metallic Minerals

► Sector = Manufacturing : Stone, Clay, Glass & Cement

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 13,652,655,890 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 10,651,590,349 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 8,877,293,211 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 9,249,592,743 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 10,042,638,385 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 11,508,439,883 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 11,552,710,378 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 14,045,388,048 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 15,167,294,794 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 14,603,127,957 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 14,248,033,514 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 9,045,326,987 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 9,846,926,896 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 7,118,336,635 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|--------------------|--------------|
| Fuel combustion - Natural gas | 2004 | 6,844,359,619 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 7,025,626,081 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 14,238,340,720 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 12,383,167,629 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 9,189,028,892 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 6,195,338,653 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 5,543,369,988 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 5,590,489,545 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 5,533,351,039 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 5,111,696,414 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 6,281,215,082 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Stone, Clay, Glass & Cement : Cement

Activity = Fuel combustion - Biomass waste fuel

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|--------------------------------------|----------|---------------------|---------------|
| Fuel combustion - Biomass waste fuel | 1990 | 0 ton | O'Hare, 2007 |
| Fuel combustion - Biomass waste fuel | 1991 | 8,507 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1992 | 17,013 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1993 | 25,520 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1994 | 34,026 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1995 | 42,533 ton | O'Hare, 2007 |
| Fuel combustion - Biomass waste fuel | 1996 | 39,735 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1997 | 36,938 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1998 | 34,140 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1999 | 31,343 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2000 | 28,545 ton | O'Hare, 2007 |
| Fuel combustion - Biomass waste fuel | 2001 | 27,874 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2002 | 27,204 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2003 | 26,533 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2004 | 25,862 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2005 | 25,192 ton | O'Hare, 2007 |
| Fuel combustion - Biomass waste fuel | 2006 | 9,307 ton | ARB, 2008 |
| Fuel combustion - Biomass waste fuel | 2007 | 13,880 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2008 | 18,784 ton | ARB, 2015b |
| Fuel combustion - Biomass waste fuel | 2009 | 26,583 ton | ARB, 2015b |
| Fuel combustion - Biomass waste fuel | 2010 | 41,691 ton | ARB, 2015b |
| Fuel combustion - Biomass waste fuel | 2011 | 50,569 ton | ARB, 2015b |
| Fuel combustion - Biomass waste fuel | 2012 | 74,218 ton | ARB, 2015b |
| Fuel combustion - Biomass waste fuel | 2013 | 84,766 ton | ARB, 2015b |
| Fuel combustion - Biomass waste fuel | 2014 | 123,791 ton | ARB, 2015b |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0938 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel CO2 emission | 1992 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0986 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.0965 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2011 | 0.0695 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2012 | 0.105 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2013 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0938 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 4.200E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 15,380,000 btu / ton | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|----------------------|--------------|
| Heat content | 1998 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 15,380,000 btu / ton | USEPA, 2012b |

Activity = Fuel combustion - Coal

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------|----------|---------------------|---------------|
| Fuel combustion - Coal | 1990 | 1,362,675 ton | O'Hare, 2007 |
| Fuel combustion - Coal | 1991 | 1,304,045 ton | Interpolated |
| Fuel combustion - Coal | 1992 | 1,245,415 ton | Interpolated |
| Fuel combustion - Coal | 1993 | 1,186,785 ton | Interpolated |
| Fuel combustion - Coal | 1994 | 1,128,155 ton | Interpolated |
| Fuel combustion - Coal | 1995 | 1,069,525 ton | O'Hare, 2007 |
| Fuel combustion - Coal | 1996 | 1,120,726 ton | Interpolated |
| Fuel combustion - Coal | 1997 | 1,171,927 ton | Interpolated |
| Fuel combustion - Coal | 1998 | 1,223,129 ton | Interpolated |
| Fuel combustion - Coal | 1999 | 1,274,330 ton | Interpolated |
| Fuel combustion - Coal | 2000 | 1,325,531 ton | O'Hare, 2007 |
| Fuel combustion - Coal | 2001 | 1,317,696 ton | Interpolated |
| Fuel combustion - Coal | 2002 | 1,309,862 ton | Interpolated |
| Fuel combustion - Coal | 2003 | 1,302,027 ton | Interpolated |
| Fuel combustion - Coal | 2004 | 1,294,192 ton | Interpolated |
| Fuel combustion - Coal | 2005 | 1,286,357 ton | O'Hare, 2007 |
| Fuel combustion - Coal | 2006 | 1,214,202 ton | ARB, 2008 |
| Fuel combustion - Coal | 2007 | 1,091,928 ton | Interpolated |
| Fuel combustion - Coal | 2008 | 945,207 ton | ARB, 2015b |
| Fuel combustion - Coal | 2009 | 626,403 ton | ARB, 2015b |
| Fuel combustion - Coal | 2010 | 605,034 ton | ARB, 2015b |
| Fuel combustion - Coal | 2011 | 668,052 ton | ARB, 2015b |
| Fuel combustion - Coal | 2012 | 659,292 ton | ARB, 2015b |
| Fuel combustion - Coal | 2013 | 455,610 ton | ARB, 2015b |
| Fuel combustion - Coal | 2014 | 669,966 ton | ARB, 2015b |
| Fuel CH4 emission | 1990 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0969 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2009 | 0.0917 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.0944 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2011 | 0.0884 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2012 | 0.0874 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2013 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0934 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.600E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1998 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 24,930,000 btu / ton | USEPA, 2012b |

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 1990 | 83,472 gal | O'Hare, 2007 |
| Fuel combustion - Distillate | 1991 | 107,169 gal | Interpolated |
| Fuel combustion - Distillate | 1992 | 130,867 gal | Interpolated |
| Fuel combustion - Distillate | 1993 | 154,564 gal | Interpolated |
| Fuel combustion - Distillate | 1994 | 178,261 gal | Interpolated |
| Fuel combustion - Distillate | 1995 | 201,959 gal | O'Hare, 2007 |
| Fuel combustion - Distillate | 1996 | 256,544 gal | Interpolated |
| Fuel combustion - Distillate | 1997 | 311,129 gal | Interpolated |
| Fuel combustion - Distillate | 1998 | 365,714 gal | Interpolated |
| Fuel combustion - Distillate | 1999 | 420,299 gal | Interpolated |
| Fuel combustion - Distillate | 2000 | 474,885 gal | O'Hare, 2007 |
| Fuel combustion - Distillate | 2001 | 395,977 gal | Interpolated |
| Fuel combustion - Distillate | 2002 | 317,069 gal | Interpolated |
| Fuel combustion - Distillate | 2003 | 238,161 gal | Interpolated |
| Fuel combustion - Distillate | 2004 | 159,254 gal | Interpolated |
| Fuel combustion - Distillate | 2005 | 80,346 gal | O'Hare, 2007 |
| Fuel combustion - Distillate | 2006 | 80,437 gal | ARB, 2008 |
| Fuel combustion - Distillate | 2007 | 78,505 gal | Interpolated |
| Fuel combustion - Distillate | 2008 | 76,956 gal | ARB, 2015b |
| Fuel combustion - Distillate | 2009 | 1,467 gal | ARB, 2015b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|------------------------------|------|-------------------|--------------|
| Fuel combustion - Distillate | 2010 | 30,150 gal | ARB, 2015b |
| Fuel combustion - Distillate | 2011 | 0 gal | ARB, 2015b |
| Fuel combustion - Distillate | 2012 | 0 gal | ARB, 2015b |
| Fuel combustion - Distillate | 2013 | 0 gal | ARB, 2015b |
| Fuel combustion - Distillate | 2014 | 0 gal | ARB, 2015b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0731 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2009 | 0.0691 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.0731 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.074 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 138,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Fossil waste fuel

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------------|----------|---------------------|---------------|
| Fuel combustion - Fossil waste fuel | 1990 | 23,403 ton | O'Hare, 2007 |
| Fuel combustion - Fossil waste fuel | 1991 | 22,521 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1992 | 21,639 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1993 | 20,757 ton | Interpolated |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------------|------|-------------------|--------------|
| Fuel combustion - Fossil waste fuel | 1994 | 19,875 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1995 | 18,993 ton | O'Hare, 2007 |
| Fuel combustion - Fossil waste fuel | 1996 | 15,194 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1997 | 11,396 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1998 | 7,597 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1999 | 3,799 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2000 | 0 ton | O'Hare, 2007 |
| Fuel combustion - Fossil waste fuel | 2001 | 0 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2002 | 0 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2003 | 0 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2004 | 0 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2005 | 0 ton | O'Hare, 2007 |
| Fuel combustion - Fossil waste fuel | 2006 | 0 ton | ARB, 2008 |
| Fuel combustion - Fossil waste fuel | 2007 | 0 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2008 | 0 ton | ARB, 2015b |
| Fuel combustion - Fossil waste fuel | 2009 | 0 ton | ARB, 2015b |
| Fuel combustion - Fossil waste fuel | 2010 | 0 ton | ARB, 2015b |
| Fuel combustion - Fossil waste fuel | 2011 | 0 ton | ARB, 2015b |
| Fuel combustion - Fossil waste fuel | 2012 | 0 ton | ARB, 2015b |
| Fuel combustion - Fossil waste fuel | 2013 | 0 ton | ARB, 2015b |
| Fuel combustion - Fossil waste fuel | 2014 | 0 ton | ARB, 2015b |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1991 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1992 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1993 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1994 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1995 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1996 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1997 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1998 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1999 | 0.0812 g / btu | O'Hare, 2007 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|-----------------|
| Fuel CO2 emission | 2000 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2001 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2002 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2003 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2004 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2005 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2006 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2007 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2008 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2009 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2010 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2011 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2012 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2013 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2014 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 4.200E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1991 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1992 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1993 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1994 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1995 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1996 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1997 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1998 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1999 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2000 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2001 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2002 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2003 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2004 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2005 | 20,090,000 btu / ton | Fossil Waste HC |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|----------------------|-----------------|
| Heat content | 2006 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2007 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2008 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2009 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2010 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2011 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2012 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2013 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2014 | 20,090,000 btu / ton | Fossil Waste HC |

Activity = Fuel combustion - LPG

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|---------------|
| Fuel combustion - LPG | 1990 | 0 gal | O'Hare, 2007 |
| Fuel combustion - LPG | 1991 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1992 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1993 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1994 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1995 | 0 gal | O'Hare, 2007 |
| Fuel combustion - LPG | 1996 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1997 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1998 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1999 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2000 | 0 gal | O'Hare, 2007 |
| Fuel combustion - LPG | 2001 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2002 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2003 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2004 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2005 | 0 gal | O'Hare, 2007 |
| Fuel combustion - LPG | 2006 | 0 gal | ARB, 2008 |
| Fuel combustion - LPG | 2007 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2008 | 0 gal | ARB, 2015b |
| Fuel combustion - LPG | 2009 | 4,847 gal | ARB, 2015b |
| Fuel combustion - LPG | 2010 | 4,165 gal | ARB, 2015b |
| Fuel combustion - LPG | 2011 | 7,782 gal | ARB, 2015b |
| Fuel combustion - LPG | 2012 | 0 gal | ARB, 2015b |
| Fuel combustion - LPG | 2013 | 6,550 gal | ARB, 2015b |
| Fuel combustion - LPG | 2014 | 4,767 gal | ARB, 2015b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.063 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.063 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|------------------|--------------|
| Heat content | 1990 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 92,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - MSW

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|---------------|
| Fuel combustion - MSW | 1990 | 0 ton | O'Hare, 2007 |
| Fuel combustion - MSW | 1991 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1992 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1993 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1994 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1995 | 0 ton | O'Hare, 2007 |
| Fuel combustion - MSW | 1996 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1997 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1998 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1999 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2000 | 0 ton | O'Hare, 2007 |
| Fuel combustion - MSW | 2001 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2002 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2003 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2004 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2005 | 0 ton | O'Hare, 2007 |
| Fuel combustion - MSW | 2006 | 0 ton | ARB, 2008 |
| Fuel combustion - MSW | 2007 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2008 | 0 ton | ARB, 2015b |
| Fuel combustion - MSW | 2009 | 0 ton | ARB, 2015b |
| Fuel combustion - MSW | 2010 | 0 ton | ARB, 2015b |
| Fuel combustion - MSW | 2011 | 3,263 ton | ARB, 2015b |
| Fuel combustion - MSW | 2012 | 0 ton | ARB, 2015b |
| Fuel combustion - MSW | 2013 | 10,896 ton | ARB, 2015b |
| Fuel combustion - MSW | 2014 | 0 ton | ARB, 2015b |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0907 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0907 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------------------|------|---------------------|--------------|
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 4.200E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 1998 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 9,950,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 9,950,000 btu / ton | USEPA, 2012b |
| Proportion of renewables | 1990 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1991 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1992 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1993 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1994 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1995 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1996 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1997 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1998 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1999 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2000 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2001 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2002 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2003 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2004 | 0.655 | Hahn, 2007 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------------------|------|-------|------------|
| Proportion of renewables | 2005 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2006 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2007 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2008 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2009 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2010 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2011 | 0.594 | ARB, 2015b |
| Proportion of renewables | 2012 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2013 | 0.569 | ARB, 2015b |
| Proportion of renewables | 2014 | 0 | ARB, 2015b |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 2,815,943,186 scf | O'Hare, 2007 |
| Fuel combustion - Natural gas | 1991 | 2,974,441,104 scf | Interpolated |
| Fuel combustion - Natural gas | 1992 | 3,132,947,779 scf | Interpolated |
| Fuel combustion - Natural gas | 1993 | 3,291,459,889 scf | Interpolated |
| Fuel combustion - Natural gas | 1994 | 3,449,961,931 scf | Interpolated |
| Fuel combustion - Natural gas | 1995 | 3,608,469,085 scf | O'Hare, 2007 |
| Fuel combustion - Natural gas | 1996 | 3,391,529,282 scf | Interpolated |
| Fuel combustion - Natural gas | 1997 | 3,174,615,867 scf | Interpolated |
| Fuel combustion - Natural gas | 1998 | 2,957,670,689 scf | Interpolated |
| Fuel combustion - Natural gas | 1999 | 2,740,751,324 scf | Interpolated |
| Fuel combustion - Natural gas | 2000 | 2,523,821,241 scf | O'Hare, 2007 |
| Fuel combustion - Natural gas | 2001 | 2,672,314,027 scf | Interpolated |
| Fuel combustion - Natural gas | 2002 | 2,820,806,726 scf | Interpolated |
| Fuel combustion - Natural gas | 2003 | 2,969,297,877 scf | Interpolated |
| Fuel combustion - Natural gas | 2004 | 3,117,796,566 scf | Interpolated |
| Fuel combustion - Natural gas | 2005 | 3,266,293,108 scf | O'Hare, 2007 |
| Fuel combustion - Natural gas | 2006 | 2,829,760,977 scf | ARB, 2008 |
| Fuel combustion - Natural gas | 2007 | 2,377,765,308 scf | Interpolated |
| Fuel combustion - Natural gas | 2008 | 1,907,916,888 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2009 | 1,164,394,954 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2010 | 917,782,663 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2011 | 1,074,666,386 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2012 | 2,732,690,232 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2013 | 3,888,130,221 scf | ARB, 2015b |
| Fuel combustion - Natural gas | 2014 | 2,259,087,286 scf | ARB, 2015b |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2009 | 0.0529 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.0527 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2011 | 0.0411 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------------------------|------|-------------------|--------------|
| Fuel N ₂ O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

Activity = Fuel combustion - Petroleum coke

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------------|----------|---------------------|---------------|
| Fuel combustion - Petroleum coke | 1990 | 93,039 ton | O'Hare, 2007 |
| Fuel combustion - Petroleum coke | 1991 | 120,455 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1992 | 147,872 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1993 | 175,288 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1994 | 202,705 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1995 | 230,121 ton | O'Hare, 2007 |
| Fuel combustion - Petroleum coke | 1996 | 229,075 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1997 | 228,028 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1998 | 226,981 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1999 | 225,934 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2000 | 224,888 ton | O'Hare, 2007 |
| Fuel combustion - Petroleum coke | 2001 | 228,653 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2002 | 232,418 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2003 | 236,184 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2004 | 239,949 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2005 | 243,715 ton | O'Hare, 2007 |
| Fuel combustion - Petroleum coke | 2006 | 287,561 ton | ARB, 2008 |
| Fuel combustion - Petroleum coke | 2007 | 276,970 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2008 | 305,122 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2009 | 195,292 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2010 | 222,535 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2011 | 213,767 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2012 | 212,644 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2013 | 289,317 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2014 | 191,134 ton | ARB, 2015b |
| Fuel CH ₄ emission | 1990 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH ₄ emission | 1991 | 1.100E-05 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1992 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0991 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2009 | 0.102 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.0867 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2011 | 0.0828 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2012 | 0.104 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2013 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.102 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.600E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1998 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 24,800,000 btu / ton | USEPA, 2012b |

Activity = Fuel combustion - Residual fuel oil

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------------|----------|---------------------|---------------|
| Fuel combustion - Residual fuel oil | 1990 | 3,850,084 gal | O'Hare, 2007 |
| Fuel combustion - Residual fuel oil | 1991 | 4,405,462 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1992 | 4,960,839 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1993 | 5,516,216 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1994 | 6,071,593 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1995 | 6,626,970 gal | O'Hare, 2007 |
| Fuel combustion - Residual fuel oil | 1996 | 6,421,453 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1997 | 6,215,936 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1998 | 6,010,419 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1999 | 5,804,902 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2000 | 5,599,385 gal | O'Hare, 2007 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------------|------|-------------------|--------------|
| Fuel combustion - Residual fuel oil | 2001 | 5,852,084 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2002 | 6,104,782 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2003 | 6,357,481 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2004 | 6,610,179 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2005 | 6,862,878 gal | O'Hare, 2007 |
| Fuel combustion - Residual fuel oil | 2006 | 4,898,844 gal | ARB, 2008 |
| Fuel combustion - Residual fuel oil | 2007 | 2,862,246 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2008 | 825,398 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2009 | 0 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2010 | 0 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2011 | 0 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2012 | 0 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2013 | 0 gal | ARB, 2015b |
| Fuel combustion - Residual fuel oil | 2014 | 0 gal | ARB, 2015b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0751 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2007 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0787 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2009 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0751 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 150,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| Heat content | 2013 | 150,000 btu / gal | USEPA, 2012b |
|---|----------|---------------------|---------------|
| Heat content | 2014 | 150,000 btu / gal | USEPA, 2012b |
| Activity = Fuel combustion - Tires | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Tires | 1990 | 14,435 ton | O'Hare, 2007 |
| Fuel combustion - Tires | 1991 | 21,089 ton | Interpolated |
| Fuel combustion - Tires | 1992 | 27,744 ton | Interpolated |
| Fuel combustion - Tires | 1993 | 34,399 ton | Interpolated |
| Fuel combustion - Tires | 1994 | 41,054 ton | Interpolated |
| Fuel combustion - Tires | 1995 | 47,708 ton | O'Hare, 2007 |
| Fuel combustion - Tires | 1996 | 46,372 ton | Interpolated |
| Fuel combustion - Tires | 1997 | 45,036 ton | Interpolated |
| Fuel combustion - Tires | 1998 | 43,700 ton | Interpolated |
| Fuel combustion - Tires | 1999 | 42,364 ton | Interpolated |
| Fuel combustion - Tires | 2000 | 41,027 ton | O'Hare, 2007 |
| Fuel combustion - Tires | 2001 | 48,574 ton | Interpolated |
| Fuel combustion - Tires | 2002 | 56,121 ton | Interpolated |
| Fuel combustion - Tires | 2003 | 63,668 ton | Interpolated |
| Fuel combustion - Tires | 2004 | 71,214 ton | Interpolated |
| Fuel combustion - Tires | 2005 | 78,761 ton | O'Hare, 2007 |
| Fuel combustion - Tires | 2006 | 72,444 ton | ARB, 2008 |
| Fuel combustion - Tires | 2007 | 75,696 ton | Interpolated |
| Fuel combustion - Tires | 2008 | 81,491 ton | ARB, 2015b |
| Fuel combustion - Tires | 2009 | 56,321 ton | ARB, 2015b |
| Fuel combustion - Tires | 2010 | 69,004 ton | ARB, 2015b |
| Fuel combustion - Tires | 2011 | 61,008 ton | ARB, 2015b |
| Fuel combustion - Tires | 2012 | 56,133 ton | ARB, 2015b |
| Fuel combustion - Tires | 2013 | 127,971 ton | ARB, 2015b |
| Fuel combustion - Tires | 2014 | 86,342 ton | ARB, 2015b |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.086 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel CO2 emission | 1991 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0894 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2009 | 0.0918 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2010 | 0.0886 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2011 | 0.0679 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2012 | 0.0814 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2013 | 0.086 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.086 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 4.200E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 26,870,000 btu / ton | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------------------|------|----------------------|--------------|
| Heat content | 1997 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 1998 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 26,870,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 26,870,000 btu / ton | USEPA, 2012b |
| Proportion of renewables | 1990 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1991 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1992 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1993 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1994 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1995 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1996 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1997 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1998 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1999 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2000 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2001 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2002 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2003 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2004 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2005 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2006 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2007 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2008 | 0.152 | ARB, 2015b |
| Proportion of renewables | 2009 | 0.182 | ARB, 2015b |
| Proportion of renewables | 2010 | 0.22 | ARB, 2015b |
| Proportion of renewables | 2011 | 0.287 | ARB, 2015b |
| Proportion of renewables | 2012 | 0.2 | ARB, 2015b |
| Proportion of renewables | 2013 | 0.199 | ARB, 2015b |
| Proportion of renewables | 2014 | 0.272 | ARB, 2015b |

► Sector = Manufacturing : Stone, Clay, Glass & Cement : Flat Glass

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 17,796 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 74,785 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 75,607 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 2,431,902 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 3,812,001 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 1,387,977 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 101,960,302 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 168,506,152 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 1999 | 126,020,959 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 12,101,206 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 3,282,204,675 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 4,571,230,338 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 5,032,153,795 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 5,565,759,606 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 6,620,016,091 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 60,129,364 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 40,841,795 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 28,653,087 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 15,328,219 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 13,484,089 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 11,629,607 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 6,951,751 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 9,611,043 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 11,046,304 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Stone, Clay, Glass & Cement : Glass Containers

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 15,821,286,060 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 13,319,936,949 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 12,939,661,288 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 14,134,158,778 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 13,378,789,566 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 13,529,747,929 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 13,430,900,084 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 14,240,571,634 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 13,791,021,689 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 14,210,178,747 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 14,597,375,893 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 11,819,947,736 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 12,821,149,094 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 11,455,830,367 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 10,491,460,852 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 9,830,702,328 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 11,333,146,505 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 9,694,035,928 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 9,142,139,305 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 8,743,623,388 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 9,145,945,983 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 9,202,573,028 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 9,536,952,700 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 9,238,218,185 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 8,138,834,241 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2g — Fuel Combustion Activities - Manufacturing Industries and Construction - Transport Equipment

► Sector = Manufacturing : Transportation Equip.

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 10,204,563,045 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 8,902,963,501 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 7,689,426,855 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 9,091,012,518 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 8,819,927,408 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 8,236,957,065 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 7,193,935,018 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 7,817,626,847 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 8,797,552,165 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 9,675,723,048 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 8,967,050,351 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 8,972,192,929 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 9,688,484,206 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 5,814,211,479 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 4,971,752,575 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 4,956,388,797 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 4,842,534,990 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 5,064,928,214 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 5,272,370,195 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 4,665,763,567 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 4,556,192,222 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 4,346,674,418 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 4,517,696,576 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 5,217,398,953 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 5,029,752,625 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2h — Fuel Combustion Activities - Manufacturing Industries and Construction - Machinery

► Sector = Manufacturing : Electric & Electronic Equip.

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 1,035,919,643 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 962,752,235 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 733,104,662 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 813,923,943 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 930,164,045 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 844,465,593 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 841,198,605 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 942,878,732 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 1,025,063,409 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 1999 | 1,141,306,150 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 1,140,793,506 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 803,992,589 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 997,142,156 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 528,847,074 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 570,920,791 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 524,188,344 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 538,847,864 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 537,660,712 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 521,667,902 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 461,821,252 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 442,781,014 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 433,766,111 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 432,637,534 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 456,365,655 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 437,867,996 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Metal Durables : Computers & Office Machines

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 8,729,533,982 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 7,507,870,226 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 6,468,706,229 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 7,071,896,645 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 6,784,109,116 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 6,590,804,713 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 6,828,916,887 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 7,081,505,911 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 7,849,853,954 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 8,817,001,759 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 17,466,964,386 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 7,250,353,025 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 7,801,049,108 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 6,604,792,151 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 5,896,447,606 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 6,153,146,255 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 6,673,541,027 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 6,094,610,666 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 5,319,310,712 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 4,887,356,920 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 4,690,932,474 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 4,528,714,977 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 4,212,465,126 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 3,950,863,230 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 3,757,325,195 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Metal Durables : Fabricated Metal Products

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 10,601,772,871 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 9,023,821,747 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 7,208,208,184 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 9,018,070,997 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 9,355,103,883 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 9,753,211,077 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 9,928,236,759 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 11,582,460,663 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 11,809,253,287 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 12,548,123,614 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 13,108,446,323 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 13,094,320,050 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 13,370,576,945 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 9,097,794,582 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 9,597,402,740 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 9,680,106,880 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 9,363,876,091 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 9,274,895,006 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 8,771,961,150 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 7,547,532,771 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 7,985,710,492 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 8,456,404,051 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 8,505,670,487 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 8,397,725,916 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 8,451,828,054 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Metal Durables : Industrial Machinery & Equip.

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 4,183,291,725 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 2,472,241,940 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 2,358,394,768 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 2,959,553,768 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 2,659,139,003 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 2,796,993,009 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 2,761,998,407 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 2,465,176,235 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 2,749,904,306 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 3,059,814,493 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 2,858,845,904 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 2,410,193,194 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 2,403,164,163 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 1,832,887,685 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 2004 | 2,526,544,814 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 2,347,447,177 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 2,660,014,017 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 2,221,256,829 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 2,411,953,280 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 2,212,320,949 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 1,708,651,860 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 1,726,278,359 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 1,805,889,848 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 1,737,724,197 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 1,718,221,498 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2i — Fuel Combustion Activities - Manufacturing Industries and Construction - Mining (excluding fuels) and Quarrying

► Sector = Mining : Coal

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Natural gas | 1990 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 109,160,389 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 387,745 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 349 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 106,321 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 85,420 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 101,387 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 211,654 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 318,706 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 13,981 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 15,253 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 26,857 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 43,518 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 1,028,728 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 861,868 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Mining : Metals

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 6,337,724 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 7,474,435 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 204,953,549 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 8,864,463 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 23,712,218 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 5,859,852,212 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 5,324,056,607 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 5,315,042,310 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 4,886,392,025 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 5,005,808,311 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 10,486,426,174 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 5,242,071,717 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 5,084,677,093 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 4,910,572,641 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 5,026,838,792 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 4,729,482,431 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 211,029,779 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 214,058,923 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 4,540,269 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 2,739,564 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 2,992,657 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 2,712,421 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 297,672,965 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 311,465,785 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 178,608,352 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Mining : Non Metals

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 550,446,660 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 583,653,360 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 769,160,791 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 652,004,188 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 676,030,361 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 615,138,473 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 674,373,527 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 721,920,536 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 916,327,594 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 978,588,378 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 6,400,707,114 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 571,618,181 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 646,670,528 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 1,303,516,726 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 1,692,139,696 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 2005 | 1,547,098,376 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 1,743,044,794 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 2,733,662,620 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 3,444,861,392 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 2,584,077,804 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 2,732,394,507 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 2,803,789,190 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 2,907,660,455 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 2,644,747,929 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 2,677,179,572 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2j — Fuel Combustion Activities - Manufacturing Industries and Construction - Wood and Wood Products**► Sector = Manufacturing : Wood & Furniture : Furniture & Fixtures****Activity = Fuel combustion - Natural gas**

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Natural gas | 1990 | 1,135,940,668 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 756,071,824 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 544,741,777 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 678,925,148 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 738,537,807 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 653,647,347 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 667,103,459 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 830,037,883 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 960,694,092 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 1,135,386,566 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 1,159,180,590 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 981,328,607 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 1,017,151,916 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 772,118,277 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 801,076,131 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 756,135,699 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 721,344,124 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 622,994,022 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 501,633,521 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 391,692,358 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 338,954,598 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 322,383,144 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 317,885,751 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 309,519,216 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 268,229,767 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Wood & Furniture : Lumber & Wood Products

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 3,789,508,296 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 3,960,484,088 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 5,922,736,748 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 5,444,191,046 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 6,597,716,971 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 6,837,561,410 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 5,341,104,748 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 5,450,974,504 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 6,450,922,254 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 5,728,217,494 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 6,663,781,728 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 4,756,277,963 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 2,530,626,610 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 2,130,238,176 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 1,275,364,365 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 1,213,098,159 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 1,222,493,481 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 893,594,925 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 830,310,713 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 617,309,749 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 594,860,099 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 469,732,898 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 274,404,039 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 312,629,003 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 405,292,412 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2k — Fuel Combustion Activities - Manufacturing Industries and Construction - Construction

► Sector = Manufacturing : Construction

Activity = Fuel combustion - Ethanol

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------|----------|---------------------|------------------------|
| Fuel combustion - Ethanol | 1990 | 147,756 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1991 | 164,377 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1992 | 15,467 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1993 | 48,368 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1994 | 60,635 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1995 | 196,522 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1996 | 165,073 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1997 | 179,872 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1998 | 100,180 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1999 | 56,673 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2000 | 120,626 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2001 | 278,809 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2002 | 351,485 gal | TSD Gasoline / Ethanol |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|---------------------------|------|-------------------|------------------------|
| Fuel combustion - Ethanol | 2003 | 2,072,877 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2004 | 3,575,557 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2005 | 3,336,157 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2006 | 3,291,243 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2007 | 2,583,474 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2008 | 2,541,300 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2009 | 2,460,618 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2010 | 4,673,062 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2011 | 4,944,141 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2012 | 6,609,683 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2013 | 14,459,906 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2014 | 8,154,185 gal | TSD Gasoline / Ethanol |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0684 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2009 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0684 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 84,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Gasoline

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|-----------------|----------------------------|------------------------|
| Fuel combustion - Gasoline | 1990 | 43,885,244 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1991 | 38,061,623 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1992 | 38,480,533 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1993 | 33,691,632 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1994 | 31,453,365 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1995 | 30,211,478 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1996 | 24,816,927 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1997 | 28,061,128 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1998 | 23,997,820 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1999 | 16,916,327 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2000 | 31,931,374 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2001 | 54,785,191 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2002 | 58,911,515 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2003 | 57,901,123 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2004 | 65,094,443 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2005 | 57,035,843 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2006 | 56,164,757 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2007 | 44,007,526 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2008 | 39,068,700 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2009 | 37,156,382 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2010 | 44,493,938 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2011 | 43,006,505 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2012 | 62,372,359 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2013 | 130,152,757 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2014 | 67,896,288 gal | TSD Gasoline / Ethanol |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0712 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0715 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1993 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0708 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0709 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0709 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0717 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0713 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 125,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| Heat content | 1999 | 125,000 btu / gal | USEPA, 2012b |
|---|----------|---------------------|---------------|
| Heat content | 2000 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 125,000 btu / gal | USEPA, 2012b |
| Activity = Fuel combustion - Natural gas | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Natural gas | 1990 | 2,840,641,268 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 2,524,301,121 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 2,093,805,606 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 2,074,615,030 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 2,155,028,403 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 2,120,298,605 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 2,849,667,575 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 2,589,689,187 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 3,015,207,678 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 2,588,337,348 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 2,527,370,354 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 2,181,233,674 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 1,787,569,992 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 2,000,153,566 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 3,224,604,537 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 3,972,127,864 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 1,750,277,059 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 1,613,348,801 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 1,380,385,995 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 1,454,823,590 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 1,442,869,417 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 1,559,138,203 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 1,456,381,758 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 1,774,369,850 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 1,849,256,060 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2I — Fuel Combustion Activities - Manufacturing Industries and Construction - Textile and Leather

► Sector = Manufacturing : Textiles : Apparel

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 488,999,513 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 414,952,630 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 425,668,487 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 457,736,454 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 478,910,167 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 434,773,682 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 407,749,981 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 484,298,060 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 508,469,725 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 506,721,283 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 505,789,941 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 469,886,399 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 509,262,694 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 288,125,817 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 378,930,877 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 384,711,503 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 397,922,342 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 362,677,035 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 2008 | 255,319,419 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 195,411,010 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 186,550,320 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 178,555,370 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 181,231,589 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 175,831,667 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 151,754,572 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Textiles : Leather

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 180,463,638 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 135,975,491 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 68,582,074 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 122,582,261 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 148,308,702 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 104,650,876 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 104,143,590 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 90,609,254 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 69,656,362 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 71,281,678 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 77,766,330 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 156,340,073 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 69,012,186 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 108,338,969 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 47,528,427 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 66,322,165 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 32,124,478 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 33,673,687 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 34,182,897 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 23,270,569 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 27,387,169 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 32,145,409 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 33,285,255 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 30,038,638 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 21,633,074 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Textiles : Textile Mills

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 4,973,577,786 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 3,731,140,215 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 2,945,202,846 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 4,517,573,494 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 5,759,626,255 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 5,739,334,429 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 6,035,503,911 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 7,627,705,373 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 8,291,877,212 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 9,982,937,089 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 10,505,087,417 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 9,343,854,196 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 10,369,953,046 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 7,877,103,897 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 7,746,653,470 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 7,553,039,146 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 6,781,749,490 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 6,014,780,906 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 5,304,789,404 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 4,079,349,520 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 4,275,791,080 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 4,052,498,795 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 3,766,922,063 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 3,841,749,929 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 3,639,013,716 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A2m — Fuel Combustion Activities - Manufacturing Industries and Construction - Non-specified Industry.

► Sector = Manufacturing

Activity = Fuel combustion - Coal

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|--------------------------|-----------------|----------------------------|-----------------------------------|
| Fuel combustion - Coal | 1990 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 1991 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 1992 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 1993 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 1994 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 1995 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 1996 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 1997 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 1998 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 1999 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2000 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2001 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2002 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2003 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2004 | 3,068 ton | Assume equal to 2011-2013 average |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|------------------------|------|-------------------|-----------------------------------|
| Fuel combustion - Coal | 2005 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2006 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2007 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2008 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2009 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2010 | 3,068 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Coal | 2011 | 2,165 ton | ARB, 2015b |
| Fuel combustion - Coal | 2012 | 3,317 ton | ARB, 2015b |
| Fuel combustion - Coal | 2013 | 3,717 ton | ARB, 2015b |
| Fuel combustion - Coal | 2014 | 3,636 ton | ARB, 2015b |
| Fuel CH4 emission | 1990 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1991 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1992 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1993 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1994 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1995 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1996 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1997 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1998 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1999 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2000 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2001 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2002 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2003 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2004 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2005 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2006 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2007 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2008 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2009 | 0.103 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2010 | 0.103 g / btu | Assume equal to 2011-2013 average |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel CO2 emission | 2011 | 0.104 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2012 | 0.113 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2013 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0934 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.600E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1998 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 24,930,000 btu / ton | USEPA, 2012b |

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Distillate | 1990 | 196,510,728 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1991 | 169,402,711 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1992 | 57,894,615 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1993 | 39,923,130 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1994 | 47,854,101 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1995 | 55,292,071 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1996 | 37,436,222 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1997 | 46,458,697 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1998 | 59,649,450 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1999 | 34,347,659 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2000 | 43,006,713 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2001 | 47,928,845 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2002 | 42,844,827 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2003 | 50,592,031 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2004 | 50,606,776 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2005 | 45,976,314 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2006 | 52,239,567 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2007 | 52,578,721 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2008 | 41,587,139 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2009 | 62,253,910 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2010 | 70,992,436 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2011 | 76,564,168 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2012 | 83,559,059 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2013 | 83,172,887 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2014 | 73,252,357 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.074 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 138,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-------------------|--------------|
| Heat content | 1999 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 138,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Ethanol

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------|----------|---------------------|------------------------|
| Fuel combustion - Ethanol | 1990 | 177,274 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1991 | 226,737 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1992 | 21,496 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1993 | 33,620 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1994 | 45,499 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1995 | 161,907 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1996 | 165,998 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1997 | 169,198 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1998 | 183,773 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1999 | 98,592 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2000 | 63,952 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2001 | 479,808 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2002 | 592,436 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2003 | 3,706,459 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2004 | 5,976,549 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2005 | 5,854,244 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2006 | 5,777,722 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2007 | 5,582,381 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2008 | 6,239,957 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2009 | 6,021,269 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2010 | 11,406,027 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2011 | 9,036,193 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2012 | 8,344,893 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2013 | 7,301,001 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2014 | 8,099,318 gal | TSD Gasoline / Ethanol |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0684 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 84,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Gasoline

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|------------------------|
| Fuel combustion - Gasoline | 1990 | 52,652,726 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1991 | 52,501,263 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1992 | 53,479,504 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1993 | 23,418,380 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1994 | 23,601,501 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1995 | 24,890,093 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1996 | 24,956,002 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1997 | 26,395,802 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1998 | 44,022,227 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1999 | 29,428,408 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2000 | 16,929,048 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2001 | 94,281,192 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2002 | 99,296,564 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2003 | 103,531,541 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2004 | 108,805,451 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2005 | 100,085,756 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2006 | 98,596,278 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2007 | 95,091,619 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2008 | 95,930,043 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2009 | 90,923,731 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2010 | 108,600,973 gal | TSD Gasoline / Ethanol |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|----------------------------|------|-------------------|------------------------|
| Fuel combustion - Gasoline | 2011 | 78,601,135 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2012 | 78,746,696 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2013 | 65,715,881 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2014 | 67,439,438 gal | TSD Gasoline / Ethanol |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0712 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0715 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0708 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0709 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0709 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0717 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0713 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 125,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Kerosene

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Kerosene | 1990 | 3,756,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1991 | 3,270,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1992 | 716,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1993 | 1,175,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1994 | 1,085,000 gal | EIA, 2013b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|----------------------------|------|-------------------|--------------|
| Fuel combustion - Kerosene | 1995 | 2,049,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1996 | 4,769,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1997 | 7,411,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1998 | 6,878,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1999 | 1,572,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2000 | 961,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2001 | 1,286,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2002 | 336,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2003 | 1,368,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2004 | 1,303,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2005 | 1,290,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2006 | 975,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2007 | 967,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2008 | 423,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2009 | 112,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2010 | 154,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2011 | 319,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2012 | 137,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2013 | 53,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2014 | 679,000 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0752 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2001 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0752 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 135,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-------------------|--------------|
| Heat content | 2007 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 135,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - LPG

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|-------------------------------|
| Fuel combustion - LPG | 1990 | 516,768,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1991 | 405,636,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1992 | 621,096,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1993 | 423,066,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1994 | 473,172,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1995 | 356,538,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1996 | 236,628,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1997 | 175,098,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1998 | 130,200,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1999 | 212,856,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2000 | 249,816,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2001 | 267,414,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2002 | 385,896,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2003 | 279,930,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2004 | 201,558,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2005 | 73,584,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2006 | 126,000,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2007 | 80,346,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2008 | 186,816,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2009 | 259,434,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2010 | 255,108,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2011 | 266,826,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2012 | 259,182,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2013 | 241,626,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2014 | 241,626,000 gal | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.063 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 92,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|------------------|--------------|
| Heat content | 1991 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 92,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 970,064,566 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 829,051,756 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 715,506,968 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 945,066,230 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 1,000,264,755 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 1,106,965,801 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 1,170,636,285 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 1,307,445,178 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 1,444,324,555 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 1,575,631,627 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 1,454,106,587 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 1,495,932,300 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 1,630,612,419 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 4,178,589,024 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 2,953,430,819 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 2,572,820,351 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 2,968,224,125 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 2,606,630,342 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 14,332,518,764 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 15,048,490,152 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 19,621,545,645 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 18,071,455,969 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 24,212,146,355 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 25,234,794,905 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 20,426,404,183 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

Activity = Fuel combustion - Petroleum coke

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------------|----------|---------------------|-----------------------------------|
| Fuel combustion - Petroleum coke | 1990 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 1991 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 1992 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 1993 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 1994 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 1995 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 1996 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 1997 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 1998 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 1999 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2000 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2001 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2002 | 13,422 ton | Assume equal to 2011-2013 average |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|----------------------------------|------|-------------------|-----------------------------------|
| Fuel combustion - Petroleum coke | 2003 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2004 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2005 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2006 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2007 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2008 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2009 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2010 | 13,422 ton | Assume equal to 2011-2013 average |
| Fuel combustion - Petroleum coke | 2011 | 13,132 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2012 | 12,858 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2013 | 14,276 ton | ARB, 2015b |
| Fuel combustion - Petroleum coke | 2014 | 15,586 ton | ARB, 2015b |
| Fuel CH4 emission | 1990 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1991 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1992 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1993 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1994 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1995 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1996 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1997 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1998 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 1999 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2000 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2001 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2002 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2003 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2004 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2005 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2006 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2007 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2008 | 0.11 g / btu | Assume equal to 2011-2013 average |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|-----------------------------------|
| Fuel CO2 emission | 2009 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2010 | 0.11 g / btu | Assume equal to 2011-2013 average |
| Fuel CO2 emission | 2011 | 0.108 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2012 | 0.12 g / btu | ARB, 2015b |
| Fuel CO2 emission | 2013 | 0.102 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.102 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.600E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1998 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 24,800,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 24,800,000 btu / ton | USEPA, 2012b |

Activity = Fuel combustion - Residual fuel oil

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Residual fuel oil | 1990 | 31,417,548 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1991 | 31,809,336 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1992 | 40,245,525 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1993 | 41,295,592 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1994 | 34,622,425 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1995 | 45,919,904 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1996 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1997 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1998 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1999 | 17,778,254 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2000 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2001 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2002 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2003 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2004 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2005 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2006 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2007 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2008 | 1,079,352 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2009 | 273,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2010 | 436,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2011 | 299,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2012 | 234,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2013 | 256,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2014 | 218,000 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0751 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1993 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0751 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 150,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-------------------|--------------|
| Heat content | 1999 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 150,000 btu / gal | USEPA, 2012b |

► Sector = Manufacturing : Plastics & Rubber

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 834,669,254 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 722,626,097 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 269,523,534 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 640,512,918 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 684,233,191 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 704,942,669 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 675,468,504 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 789,333,296 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 791,683,349 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 878,723,732 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 892,548,394 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 1,097,499,851 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 1,305,976,117 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 369,786,699 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 250,810,023 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 220,608,918 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 149,436,584 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 262,156,798 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 318,176,908 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 261,101,054 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 278,012,851 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 286,446,813 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 258,742,354 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 245,176,264 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 260,278,307 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Manufacturing : Plastics & Rubber : Plastics

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 3,164,891,709 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 2,775,504,767 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 2,404,252,825 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 2,422,659,445 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 2,706,544,067 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 2,723,966,527 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 2,669,386,852 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 3,246,874,685 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 4,032,625,935 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 4,398,342,001 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 4,596,221,951 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 3,233,092,666 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 4,050,607,069 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 3,720,543,545 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 3,941,181,493 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 3,601,014,885 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 3,539,556,140 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 2,857,842,820 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 2,329,436,733 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 2009 | 1,980,123,609 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 1,928,903,865 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 1,780,827,540 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 1,591,879,234 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 1,593,945,447 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 1,628,314,008 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Not Specified Industrial

Activity = Fuel combustion - Crude oil

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------------|----------|---------------------|---------------|
| Fuel combustion - Crude oil | 1990 | 305,466,000 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 1991 | 282,030,000 gal | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-----------------------------|------|-------------------|-------------------------------|
| Fuel combustion - Crude oil | 1992 | 198,156,000 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 1993 | 153,174,000 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 1994 | 135,282,000 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 1995 | 105,252,000 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 1996 | 99,414,000 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 1997 | 33,474,000 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 1998 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 1999 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2000 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2001 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2002 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2003 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2004 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2005 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2006 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2007 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2008 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2009 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2010 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2011 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2012 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2013 | 0 gal | EIA, 2013c |
| Fuel combustion - Crude oil | 2014 | 0 gal | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0745 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1998 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0745 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0745 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 138,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-------------------|--------------|
| Heat content | 2004 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 138,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Other petroleum products

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|--|----------|---------------------|-------------------------------|
| Fuel combustion - Other petroleum products | 1990 | 23,814,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 1991 | 16,464,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 1992 | 10,794,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 1993 | 10,206,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 1994 | 11,424,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 1995 | 10,500,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 1996 | 5,292,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 1997 | 5,796,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 1998 | 7,056,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 1999 | 6,636,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2000 | 7,056,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2001 | 12,432,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2002 | 13,356,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2003 | 12,558,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2004 | 11,298,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2005 | 11,214,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2006 | 8,022,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2007 | 7,854,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2008 | 8,358,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2009 | 8,946,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2010 | 9,366,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2011 | 9,702,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2012 | 9,534,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2013 | 20,076,000 gal | EIA, 2013c |
| Fuel combustion - Other petroleum products | 2014 | 20,076,000 gal | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.071 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 129,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 129,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Wood (wet)

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|-------------------------------|
| Fuel combustion - Wood (wet) | 1990 | 4,090,247 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1991 | 3,662,874 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1992 | 3,557,672 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1993 | 2,889,532 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1994 | 2,642,653 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1995 | 2,463,134 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1996 | 2,127,958 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1997 | 2,579,779 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1998 | 2,123,082 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1999 | 2,323,992 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2000 | 2,577,438 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2001 | 2,905,982 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2002 | 1,783,940 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2003 | 1,734,720 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2004 | 1,751,560 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2005 | 1,929,194 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2006 | 1,775,748 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2007 | 1,808,648 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2008 | 1,603,511 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2009 | 1,473,732 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2010 | 1,496,424 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2011 | 1,644,083 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2012 | 1,612,484 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2013 | 1,500,390 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2014 | 1,500,390 ton | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0938 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 4.200E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1998 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 15,380,000 btu / ton | USEPA, 2012b |

IPCC category = 1A4a — Fuel Combustion Activities - Other Sectors - Commercial/Institutional

► Sector = Communication : Other Message Communications

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 2,811,811,212 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 2,319,290,814 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 1,182,674,859 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 1,862,722,525 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 2,159,988,032 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 1,648,774,049 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 1,705,818,285 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 1997 | 1,971,768,105 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 2,228,977,567 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 2,606,411,150 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 2,741,103,740 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 2,390,305,268 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 2,832,428,507 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 2,684,279,955 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 2,829,642,617 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 2,595,520,614 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 2,873,060,949 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 2,741,824,411 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 2,455,532,872 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 2,392,689,657 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 2,108,710,533 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 2,208,871,940 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 2,089,180,140 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 2,069,183,704 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 1,754,387,062 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Communication : Radio Broadcasting Stations

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 163,771,980 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 135,453,796 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 110,499,617 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 152,214,850 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 161,185,932 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 153,146,534 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 149,238,412 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 169,815,050 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 181,136,529 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 207,260,380 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 156,359,052 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 77,050,244 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 79,844,146 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 139,946,005 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 118,152,254 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 83,741,105 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 117,791,426 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 120,599,994 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 115,270,550 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 112,127,522 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 107,454,801 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 111,562,846 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 110,266,094 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 109,617,281 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 95,462,743 scf | Gough, 2015 |

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Communication : Telephone & Cell Phone Services

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 517,479,775 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 634,068,874 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 599,940,900 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 459,915,276 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 676,886,729 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 568,593,781 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 3,559,502,089 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 695,317,473 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 625,067,424 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 657,358,058 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 571,088,300 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 466,273,089 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 487,043,562 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 295,963,072 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 265,033,404 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 271,401,865 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 250,969,365 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 165,140,293 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 164,447,193 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 178,559,308 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 210,081,976 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 171,004,880 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 164,726,596 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 168,997,739 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 144,741,926 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Communication : U.S. Postal Service

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 266,214,950 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 251,536,219 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 186,710,622 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 237,142,678 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 303,989,411 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 310,637,976 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 362,726,596 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 297,721,819 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 360,328,506 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 383,217,003 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 337,128,119 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 313,524,014 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 2002 | 359,526,265 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 315,208,169 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 258,296,118 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 135,219,407 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 215,668,575 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 277,837,196 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 289,459,597 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 295,126,963 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 259,364,326 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 258,062,308 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 228,570,696 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 238,471,962 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 176,469,066 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |

| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |
|---|----------|---------------------|---------------|
| ► Sector = Domestic Utilities : Sewerage Systems | | | |
| Activity = Fuel combustion - Natural gas | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Natural gas | 1990 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 102 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 52,693 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 0 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 0 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Domestic Utilities : Water Supply

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 3,706,685,775 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 2,925,127,823 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 2,349,583,301 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 2,871,730,055 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 3,349,891,474 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 3,621,875,918 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 5,305,732,612 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 6,734,718,050 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 4,198,538,535 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 4,951,504,688 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 4,884,977,188 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 3,261,109,075 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 3,060,895,677 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 6,817,343,346 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 6,007,592,002 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 4,229,964,525 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 5,384,991,527 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 5,461,314,100 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 5,185,086,015 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 5,163,189,067 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 4,931,932,145 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 4,718,271,567 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 4,836,295,291 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 4,579,399,098 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 4,618,171,206 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Education : College

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 10,674,454,093 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 9,503,414,314 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 7,606,163,947 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 9,310,761,825 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 9,133,271,422 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 8,705,014,717 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 9,249,397,292 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 9,855,353,814 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 11,822,737,946 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 13,429,361,401 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 12,988,038,295 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 9,974,615,049 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 11,741,678,560 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 10,580,210,956 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 10,714,679,685 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 11,118,674,113 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|--------------------|--------------|
| Fuel combustion - Natural gas | 2006 | 10,602,072,657 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 10,241,982,880 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 9,002,414,879 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 9,797,232,834 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 10,127,538,052 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 10,212,775,041 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 9,574,683,216 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 9,764,188,935 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 8,762,692,121 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Education : School

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 11,962,436,392 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 10,967,623,803 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 8,166,912,519 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 9,549,121,912 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 10,274,185,444 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 8,484,972,898 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 8,223,629,011 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 9,367,078,751 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 11,033,360,916 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 12,247,100,775 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 11,110,263,552 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 9,931,291,518 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 11,152,718,449 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 9,637,715,602 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 9,428,652,689 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 8,691,827,390 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 10,014,158,727 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 9,804,253,183 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 9,528,688,040 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 9,087,726,958 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 9,204,663,080 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 9,335,905,330 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 8,631,990,567 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 8,781,491,743 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 7,002,159,630 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Food Services : Food & Liquor

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 789,059,530 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 672,783,849 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 452,995,161 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 554,049,276 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 553,004,305 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 482,392,938 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 454,023,351 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 497,987,130 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 492,351,951 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 523,703,088 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 509,066,316 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 3,308,610,347 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 3,669,437,214 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 13,241,113,231 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 11,173,779,598 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 10,729,968,006 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 9,724,914,746 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 9,170,300,357 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 8,559,885,217 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 8,184,025,814 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 8,005,569,826 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 8,153,882,932 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 8,606,440,634 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 8,691,925,660 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 8,488,780,837 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Food Services : Restaurant

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 26,498,108,894 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 23,619,847,644 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 20,691,862,243 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 24,859,297,489 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 25,796,401,607 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 25,874,012,736 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 26,551,423,609 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 31,345,375,068 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 31,669,343,220 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 35,180,366,345 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 36,904,798,507 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 33,278,014,793 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 42,191,249,790 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 29,401,376,431 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 30,878,436,216 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 31,568,697,730 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 35,689,173,932 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 35,224,458,306 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|--------------------|--------------|
| Fuel combustion - Natural gas | 2008 | 33,841,219,428 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 32,654,630,040 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 33,162,906,821 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 33,456,040,977 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 33,407,041,923 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 33,999,005,906 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 34,169,663,716 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Health Care

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 25,781,440,433 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 23,258,944,086 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 17,968,596,701 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 22,014,340,364 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 23,026,692,982 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 22,491,592,259 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 21,673,411,384 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 24,669,114,872 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 24,778,842,924 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 27,590,138,788 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 27,309,784,958 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 26,341,173,431 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 30,567,564,644 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 27,261,145,109 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 26,498,908,874 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 26,336,272,270 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 27,945,347,452 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 27,250,748,278 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 26,511,541,048 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 26,530,780,576 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 27,791,831,568 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 28,601,959,567 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 28,129,840,172 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 28,277,449,805 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 26,912,640,078 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Hotels

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 11,460,213,107 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 10,254,813,264 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 8,788,099,203 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 9,910,941,491 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 10,178,764,733 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 9,993,675,667 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 9,925,176,126 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 11,613,065,715 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 11,392,419,568 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 12,431,276,781 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 12,489,413,120 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 12,359,667,648 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 14,372,180,471 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 12,777,451,606 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 12,476,837,136 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 12,566,350,379 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 13,734,940,934 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 13,720,162,870 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 13,383,552,848 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 12,924,390,019 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 13,407,874,522 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 13,608,391,563 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 13,457,037,474 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 13,627,130,068 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 13,394,406,518 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = National Security

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 12,380,648,732 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 11,333,653,971 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 9,423,072,890 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 10,196,119,149 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 8,956,362,444 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 6,940,695,149 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 6,367,297,283 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 4,744,867,154 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 5,098,672,155 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 5,088,888,361 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 3,982,944,187 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 5,720,219,453 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 3,837,292,927 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 3,546,013,186 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 3,655,465,830 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 3,395,151,045 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 3,823,263,196 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 3,588,299,781 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 2008 | 3,193,668,093 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 3,228,254,245 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 3,123,152,019 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 3,298,120,542 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 2,943,467,473 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 2,640,308,300 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 2,701,590,564 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------------------------|------|-------------------|--------------|
| Fuel CO ₂ emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Not Specified Commercial

Activity = Fuel combustion - Coal

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------|----------|---------------------|---------------|
| Fuel combustion - Coal | 1990 | 20,073 ton | EIA, 2013c |
| Fuel combustion - Coal | 1991 | 36,351 ton | EIA, 2013c |
| Fuel combustion - Coal | 1992 | 158 ton | EIA, 2013c |
| Fuel combustion - Coal | 1993 | 116,381 ton | EIA, 2013c |
| Fuel combustion - Coal | 1994 | 141,219 ton | EIA, 2013c |
| Fuel combustion - Coal | 1995 | 115,583 ton | EIA, 2013c |
| Fuel combustion - Coal | 1996 | 155,811 ton | EIA, 2013c |
| Fuel combustion - Coal | 1997 | 96,637 ton | EIA, 2013c |
| Fuel combustion - Coal | 1998 | 102,694 ton | EIA, 2013c |
| Fuel combustion - Coal | 1999 | 24,256 ton | EIA, 2013c |
| Fuel combustion - Coal | 2000 | 21,028 ton | EIA, 2013c |
| Fuel combustion - Coal | 2001 | 21.4 ton | EIA, 2013c |
| Fuel combustion - Coal | 2002 | 38.7 ton | EIA, 2013c |
| Fuel combustion - Coal | 2003 | 188 ton | EIA, 2013c |
| Fuel combustion - Coal | 2004 | 7,502 ton | EIA, 2013c |
| Fuel combustion - Coal | 2005 | 18,082 ton | EIA, 2013c |
| Fuel combustion - Coal | 2006 | 1,282 ton | EIA, 2013c |
| Fuel combustion - Coal | 2007 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2008 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2009 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2010 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2011 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2012 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2013 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2014 | 0 ton | EIA, 2013c |
| Fuel CH4 emission | 1990 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.100E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0934 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel CO2 emission | 1992 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0934 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.600E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 24,930,000 btu / ton | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|----------------------|--------------|
| Heat content | 1998 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 24,930,000 btu / ton | USEPA, 2012b |

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 1990 | 192,228,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1991 | 186,788,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1992 | 83,787,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1993 | 66,780,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1994 | 63,103,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1995 | 98,146,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1996 | 73,223,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1997 | 82,090,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1998 | 102,852,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1999 | 68,215,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2000 | 83,765,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2001 | 79,000,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2002 | 77,901,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2003 | 80,234,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2004 | 63,844,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2005 | 86,397,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2006 | 66,071,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2007 | 73,720,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2008 | 108,583,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2009 | 123,693,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2010 | 170,637,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2011 | 169,205,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2012 | 146,366,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2013 | 134,977,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2014 | 139,238,000 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.074 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 138,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Ethanol

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------|----------|---------------------|------------------------|
| Fuel combustion - Ethanol | 1990 | 274,468 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1991 | 296,919 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1992 | 25,198 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1993 | 13,526 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1994 | 18,379 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1995 | 62,489 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1996 | 64,015 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1997 | 61,603 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1998 | 40,595 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1999 | 32,920 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2000 | 37,454 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2001 | 51,894 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2002 | 61,403 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2003 | 356,517 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2004 | 535,110 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2005 | 565,807 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2006 | 582,621 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2007 | 587,549 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2008 | 652,334 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2009 | 668,678 gal | TSD Gasoline / Ethanol |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|---------------------------|------|-------------------|------------------------|
| Fuel combustion - Ethanol | 2010 | 1,031,235 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2011 | 903,251 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2012 | 1,153,378 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2013 | 1,161,427 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2014 | 1,261,932 gal | TSD Gasoline / Ethanol |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0684 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 84,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Gasoline

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|------------------------|
| Fuel combustion - Gasoline | 1990 | 81,520,532 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1991 | 68,752,081 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1992 | 62,689,802 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1993 | 9,421,474 gal | TSD Gasoline / Ethanol |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|----------------------------|------|-------------------|------------------------|
| Fuel combustion - Gasoline | 1994 | 9,533,621 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1995 | 9,606,511 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1996 | 9,623,985 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1997 | 9,610,397 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1998 | 9,724,405 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1999 | 9,826,080 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2000 | 9,914,546 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2001 | 10,197,106 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2002 | 10,291,597 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2003 | 9,958,483 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2004 | 9,741,890 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2005 | 9,673,193 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2006 | 9,942,379 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2007 | 10,008,451 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2008 | 10,028,666 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2009 | 10,097,322 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2010 | 9,818,765 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2011 | 7,856,909 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2012 | 10,883,862 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2013 | 10,453,933 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2014 | 10,507,550 gal | TSD Gasoline / Ethanol |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0712 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0715 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0708 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2000 | 0.0709 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0709 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0717 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0713 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 125,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-------------------|--------------|
| Heat content | 2006 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 125,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Kerosene

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Kerosene | 1990 | 2,641,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1991 | 3,671,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1992 | 835,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1993 | 796,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1994 | 524,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1995 | 1,122,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1996 | 2,889,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1997 | 1,737,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1998 | 2,663,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1999 | 1,204,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2000 | 2,194,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2001 | 2,647,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2002 | 1,147,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2003 | 1,987,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2004 | 3,016,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2005 | 2,464,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2006 | 2,277,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2007 | 1,297,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2008 | 586,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2009 | 857,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2010 | 1,402,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2011 | 1,063,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2012 | 359,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2013 | 322,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2014 | 380,000 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0752 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-------------------|--------------|
| Heat content | 1990 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 135,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - LPG

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|-------------------------------|
| Fuel combustion - LPG | 1990 | 73,038,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1991 | 88,284,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1992 | 60,984,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1993 | 63,924,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1994 | 62,916,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1995 | 62,034,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1996 | 51,786,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1997 | 46,788,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1998 | 77,364,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1999 | 72,534,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2000 | 67,662,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2001 | 46,452,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2002 | 54,054,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2003 | 91,518,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2004 | 129,192,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2005 | 101,472,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2006 | 75,264,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2007 | 84,588,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2008 | 109,200,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2009 | 87,234,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2010 | 94,584,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2011 | 94,878,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2012 | 95,298,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2013 | 90,468,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2014 | 90,468,000 gal | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.063 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 92,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 42,863,048,585 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 37,990,817,577 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 31,597,081,257 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 38,181,591,863 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 40,020,842,812 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 39,809,091,656 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 40,862,311,906 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 46,261,536,315 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 46,741,949,825 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 51,422,361,376 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 49,306,121,315 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 51,038,737,313 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|--------------------|--------------|
| Fuel combustion - Natural gas | 2002 | 59,726,050,881 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 59,586,071,860 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 58,114,365,576 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 56,334,459,471 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 57,219,976,134 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 54,952,300,928 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 52,142,122,110 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 51,176,367,356 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 52,212,166,401 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 52,795,822,877 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 50,580,182,122 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 51,104,997,928 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 47,290,209,951 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |
|---|----------|---------------------|---------------|
| Activity = Fuel combustion - Residual fuel oil | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Residual fuel oil | 1990 | 34,667,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1991 | 32,135,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1992 | 1,812,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1993 | 803,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1994 | 329,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1995 | 179,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1996 | 529,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1997 | 73,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1998 | 2,570,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 1999 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2000 | 23,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2001 | 1,287,000 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2002 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2003 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2004 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2005 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2006 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2007 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2008 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2009 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2010 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2011 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2012 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2013 | 0 gal | EIA, 2013b |
| Fuel combustion - Residual fuel oil | 2014 | 25,000 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0751 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1992 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0751 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0751 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 150,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-------------------|--------------|
| Heat content | 1998 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 150,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 150,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Wood (wet)

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|-------------------------------|
| Fuel combustion - Wood (wet) | 1990 | 519,961 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1991 | 542,783 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1992 | 572,497 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1993 | 522,237 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1994 | 500,065 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1995 | 504,746 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1996 | 524,317 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1997 | 409,168 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1998 | 357,412 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1999 | 375,813 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2000 | 402,211 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2001 | 406,697 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2002 | 416,515 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2003 | 433,680 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2004 | 423,992 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2005 | 270,026 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2006 | 250,520 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2007 | 266,060 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2008 | 280,754 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2009 | 342,393 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2010 | 338,036 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2011 | 325,423 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2012 | 285,046 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2013 | 330,364 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2014 | 330,364 ton | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0938 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 4.200E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1998 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 15,380,000 btu / ton | USEPA, 2012b |

► Sector = Offices

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 12,022,672,095 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 10,365,842,928 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 7,893,887,556 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 9,091,831,057 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 10,089,405,008 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 8,849,893,531 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 8,796,397,532 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 10,179,552,695 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 12,978,807,444 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 14,688,755,365 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 15,110,833,721 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 10,206,855,739 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 12,174,276,905 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 12,410,572,091 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 12,887,560,817 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 12,608,728,038 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 13,352,025,939 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 11,494,968,237 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 12,733,713,908 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|--------------------|--------------|
| Fuel combustion - Natural gas | 2009 | 12,374,405,476 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 12,595,019,646 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 12,800,858,764 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 10,166,947,923 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 9,890,563,116 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 9,140,401,556 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Retail & Wholesale : Refrigerated Warehousing

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 4,530,553,343 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 2,468,822,983 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 1992 | 1,381,367,187 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 2,679,163,476 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 3,116,386,813 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 1,086,624,925 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 1,130,177,445 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 1,236,138,234 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 1,486,792,787 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 1,529,820,926 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 1,670,322,233 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 2,013,271,752 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 2,536,822,497 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 1,745,938,302 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 1,779,127,584 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 1,759,911,052 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 1,626,386,624 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 1,585,906,623 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 1,444,691,937 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 1,350,576,866 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 1,388,371,368 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 1,470,077,383 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 1,389,757,870 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 1,472,234,543 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 1,195,491,926 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Retail & Wholesale : Retail

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 8,846,455,749 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 7,276,194,453 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 7,159,497,461 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 7,043,091,953 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 7,452,371,281 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 7,547,756,846 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 6,557,451,074 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 7,871,036,093 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 8,290,282,083 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 9,403,330,716 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 9,752,941,955 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 10,127,949,791 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 13,492,241,686 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 12,431,483,669 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 12,505,277,419 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 12,199,737,114 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 13,680,847,095 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 13,362,957,875 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 12,197,654,995 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 13,069,015,300 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 13,469,476,102 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 13,856,754,227 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 16,314,720,155 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 14,320,904,423 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 13,322,090,078 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------------------------|------|-------------------|--------------|
| Fuel N ₂ O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N ₂ O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Retail & Wholesale : Warehousing

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 3,622,280,031 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 3,142,315,915 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 3,711,271,033 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 3,096,464,736 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 2,978,626,550 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 3,208,786,051 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 3,030,965,158 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 3,536,385,670 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 3,973,463,193 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 4,583,768,082 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 4,649,835,471 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 3,938,714,539 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 4,856,771,061 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 4,868,295,011 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 4,454,198,287 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 4,774,285,731 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 5,083,342,013 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 4,404,545,450 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 4,136,673,377 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 3,919,421,468 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 4,044,491,818 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 4,030,278,017 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 4,009,119,224 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 4,128,107,283 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 2014 | 3,798,096,304 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Transportation Services : Airports

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 1,403,371,330 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 1,267,671,963 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 853,198,181 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 1,276,343,090 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 1,112,724,275 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 1,153,152,891 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 1,128,824,914 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 1997 | 1,338,734,707 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 1,469,434,058 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 1,662,844,717 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 1,683,358,751 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 629,258,834 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 919,293,679 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 901,508,320 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 814,468,759 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 770,917,964 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 1,339,806,131 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 1,261,337,921 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 933,266,740 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 912,099,871 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 868,162,187 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 1,105,519,705 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 1,315,140,797 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 1,507,912,082 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 1,360,222,675 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Transportation Services : Transportation

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 1,049,022,783 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 960,710,655 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 715,135,743 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 792,587,389 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 904,660,394 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 857,792,847 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 1,127,427,308 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 1,191,594,219 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 1,436,474,991 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 1,765,523,073 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 1,716,207,589 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 1,634,371,033 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 1,467,255,471 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 1,151,137,853 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 930,189,906 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 813,821,959 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 876,255,020 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 4,974,385,179 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 8,353,068,572 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 8,429,951,801 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 8,868,834,196 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 9,148,329,118 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 9,029,511,994 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 8,953,590,270 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 9,173,913,911 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Transportation Services : Water Transportation

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 62,914,668 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 70,437,660 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 54,387,451 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 63,826,554 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 66,438,795 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 60,974,675 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 56,223,261 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 53,685,203 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 69,751,849 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 69,867,818 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 56,559,514 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 62,264,128 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 45,137,123 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 43,126,382 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 39,894,626 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 36,812,664 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 62,170,132 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 78,739,943 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 83,634,828 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 93,135,929 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 107,618,768 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 118,360,435 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 120,223,957 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 147,752,641 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 91,387,646 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A4b — Fuel Combustion Activities - Other Sectors - Residential

► Sector = Household Use

Activity = Fuel combustion - Coal

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------|----------|---------------------|---------------|
| Fuel combustion - Coal | 1990 | 5,018 ton | EIA, 2013c |
| Fuel combustion - Coal | 1991 | 7,979 ton | EIA, 2013c |
| Fuel combustion - Coal | 1992 | 34.7 ton | EIA, 2013c |
| Fuel combustion - Coal | 1993 | 25,547 ton | EIA, 2013c |
| Fuel combustion - Coal | 1994 | 24,921 ton | EIA, 2013c |
| Fuel combustion - Coal | 1995 | 17,271 ton | EIA, 2013c |
| Fuel combustion - Coal | 1996 | 21,247 ton | EIA, 2013c |
| Fuel combustion - Coal | 1997 | 11,944 ton | EIA, 2013c |
| Fuel combustion - Coal | 1998 | 12,692 ton | EIA, 2013c |
| Fuel combustion - Coal | 1999 | 3,308 ton | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|------------------------|------|-------------------|--------------|
| Fuel combustion - Coal | 2000 | 2,599 ton | EIA, 2013c |
| Fuel combustion - Coal | 2001 | 2.64 ton | EIA, 2013c |
| Fuel combustion - Coal | 2002 | 5.28 ton | EIA, 2013c |
| Fuel combustion - Coal | 2003 | 28.1 ton | EIA, 2013c |
| Fuel combustion - Coal | 2004 | 834 ton | EIA, 2013c |
| Fuel combustion - Coal | 2005 | 1,572 ton | EIA, 2013c |
| Fuel combustion - Coal | 2006 | 127 ton | EIA, 2013c |
| Fuel combustion - Coal | 2007 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2008 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2009 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2010 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2011 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2012 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2013 | 0 ton | EIA, 2013c |
| Fuel combustion - Coal | 2014 | 0 ton | EIA, 2013c |
| Fuel CH4 emission | 1990 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.300E-04 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0934 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel CO2 emission | 2006 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0934 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0934 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.600E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.600E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1998 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 24,930,000 btu / ton | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| Heat content | 2012 | 24,930,000 btu / ton | USEPA, 2012b |
|--|----------|----------------------|---------------|
| Heat content | 2013 | 24,930,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 24,930,000 btu / ton | USEPA, 2012b |
| Activity = Fuel combustion - Distillate | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Distillate | 1990 | 9,466,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1991 | 8,359,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1992 | 8,425,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1993 | 6,493,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1994 | 6,212,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1995 | 5,433,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1996 | 4,227,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1997 | 5,245,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1998 | 6,534,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1999 | 4,254,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2000 | 6,507,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2001 | 8,169,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2002 | 5,219,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2003 | 5,387,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2004 | 5,470,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2005 | 6,836,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2006 | 6,841,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2007 | 3,853,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2008 | 5,540,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2009 | 13,704,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2010 | 5,842,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2011 | 4,395,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2012 | 2,491,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2013 | 3,698,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2014 | 3,920,000 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.074 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 138,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-------------------|--------------|
| Heat content | 1996 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 138,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Kerosene

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Kerosene | 1990 | 12,530,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1991 | 12,676,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1992 | 1,367,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1993 | 2,833,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1994 | 2,827,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1995 | 3,397,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1996 | 4,343,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1997 | 5,657,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1998 | 9,959,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1999 | 7,846,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2000 | 11,788,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2001 | 14,701,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2002 | 9,087,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2003 | 8,217,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2004 | 11,605,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2005 | 12,748,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2006 | 12,036,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2007 | 6,399,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2008 | 3,396,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2009 | 7,204,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2010 | 6,043,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2011 | 4,629,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2012 | 1,990,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2013 | 1,904,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2014 | 2,472,000 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0752 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 135,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - LPG

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|---------------|
| Fuel combustion - LPG | 1990 | 211,092,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1991 | 255,234,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1992 | 176,316,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1993 | 184,842,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1994 | 181,860,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1995 | 179,298,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1996 | 149,772,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1997 | 135,324,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1998 | 223,650,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 1999 | 209,664,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2000 | 195,594,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2001 | 134,274,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2002 | 156,240,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2003 | 224,028,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2004 | 272,034,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2005 | 309,330,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2006 | 270,060,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2007 | 286,398,000 gal | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-----------------------|------|-------------------|-------------------------------|
| Fuel combustion - LPG | 2008 | 351,624,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2009 | 330,078,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2010 | 347,466,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2011 | 338,352,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2012 | 252,462,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2013 | 253,554,000 gal | EIA, 2013c |
| Fuel combustion - LPG | 2014 | 253,554,000 gal | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.063 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.063 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2014 | 0.063 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 92,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 92,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 504,200,678,043 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 513,498,468,884 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|---------------------|--------------|
| Fuel combustion - Natural gas | 1992 | 490,756,034,889 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 495,609,283,719 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 519,561,915,096 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 475,986,428,699 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 469,078,615,943 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 472,992,855,023 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 524,553,178,455 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 567,646,375,853 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 551,180,052,742 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 508,000,952,224 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 508,207,522,367 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 491,829,918,233 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 504,898,166,373 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 477,443,122,920 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 489,144,563,505 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 488,318,297,022 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 488,088,751,532 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 481,776,471,911 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 497,732,382,082 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 508,651,553,294 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 475,694,658,465 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 486,918,242,791 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 405,085,377,529 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

Activity = Fuel combustion - Wood (wet)

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|-------------------------------|
| Fuel combustion - Wood (wet) | 1990 | 4,757,542 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1991 | 4,987,581 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1992 | 5,232,835 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1993 | 3,879,584 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1994 | 3,682,510 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1995 | 3,682,510 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1996 | 3,824,187 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1997 | 2,449,155 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1998 | 2,176,398 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 1999 | 2,233,680 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2000 | 2,405,527 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2001 | 2,311,443 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2002 | 2,346,229 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2003 | 2,469,766 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2004 | 2,531,469 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2005 | 1,682,640 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2006 | 1,492,328 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2007 | 1,649,415 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2008 | 1,845,774 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2009 | 2,424,187 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2010 | 2,116,450 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2011 | 2,164,564 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2012 | 2,020,221 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2013 | 2,789,857 ton | EIA, 2013c |
| Fuel combustion - Wood (wet) | 2014 | 2,789,857 ton | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.200E-05 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0938 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0938 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 4.200E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|----------------------|--------------|
| Fuel N2O emission | 2013 | 4.200E-06 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 4.200E-06 g / btu | USEPA, 2012b |
| Heat content | 1990 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1991 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1992 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1993 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1994 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1995 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1996 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1997 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1998 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 1999 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2000 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2001 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2002 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2003 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2004 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2005 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2006 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2007 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2008 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2009 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2010 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2011 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2012 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2013 | 15,380,000 btu / ton | USEPA, 2012b |
| Heat content | 2014 | 15,380,000 btu / ton | USEPA, 2012b |

IPCC category = 1A4c — Fuel Combustion Activities - Other Sectors - Agriculture/Forestry/Fishing/Fish Farms

► Sector = Ag Energy Use

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 1990 | 358,602,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1991 | 269,901,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1992 | 270,922,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1993 | 202,780,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1994 | 197,245,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1995 | 180,032,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1996 | 190,386,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1997 | 276,302,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1998 | 295,431,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1999 | 220,502,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2000 | 245,766,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2001 | 262,592,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2002 | 296,703,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2003 | 292,634,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2004 | 309,300,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2005 | 331,896,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2006 | 377,329,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2007 | 261,386,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2008 | 310,252,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2009 | 170,895,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2010 | 191,337,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2011 | 246,257,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2012 | 241,032,000 gal | EIA, 2013b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|------------------------------|------|-------------------|--------------|
| Fuel combustion - Distillate | 2013 | 246,930,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2014 | 345,505,000 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.074 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 138,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Ethanol

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------|----------|---------------------|------------------------|
| Fuel combustion - Ethanol | 1990 | 133,182 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1991 | 213,944 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1992 | 20,572 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1993 | 83,158 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1994 | 120,420 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1995 | 419,858 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1996 | 437,006 gal | TSD Gasoline / Ethanol |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|---------------------------|------|-------------------|------------------------|
| Fuel combustion - Ethanol | 1997 | 438,882 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1998 | 293,952 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 1999 | 119,227 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2000 | 130,769 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2001 | 216,474 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2002 | 270,611 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2003 | 1,621,347 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2004 | 3,099,649 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2005 | 3,285,318 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2006 | 3,577,600 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2007 | 2,035,239 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2008 | 1,162,549 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2009 | 1,192,826 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2010 | 1,898,708 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2011 | 6,103,370 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2012 | 8,392,370 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2013 | 6,038,425 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Ethanol | 2014 | 6,581,654 gal | TSD Gasoline / Ethanol |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0684 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2003 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0684 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0684 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 84,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|------------------|--------------|
| Heat content | 2009 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 84,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 84,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Gasoline

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|------------------------|
| Fuel combustion - Gasoline | 1990 | 39,556,818 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1991 | 49,539,056 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1992 | 51,182,428 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1993 | 57,924,842 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1994 | 62,465,580 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1995 | 64,545,142 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1996 | 65,698,994 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1997 | 68,468,118 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1998 | 70,415,048 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 1999 | 35,587,773 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2000 | 34,616,231 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2001 | 42,536,526 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2002 | 45,356,389 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2003 | 45,288,653 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2004 | 56,430,351 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2005 | 56,166,682 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2006 | 61,051,400 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2007 | 34,668,761 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2008 | 17,872,451 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2009 | 18,012,174 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2010 | 18,078,292 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2011 | 53,090,036 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2012 | 79,194,713 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2013 | 54,351,502 gal | TSD Gasoline / Ethanol |
| Fuel combustion - Gasoline | 2014 | 54,802,518 gal | TSD Gasoline / Ethanol |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0712 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0715 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0708 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0709 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0709 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0711 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0717 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0713 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0713 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 125,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-------------------|--------------|
| Heat content | 1993 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 125,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 125,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Kerosene

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Kerosene | 1990 | 1,665,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1991 | 2,528,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1992 | 233,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1993 | 681,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1994 | 610,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1995 | 308,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1996 | 359,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1997 | 224,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1998 | 428,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 1999 | 1,479,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2000 | 643,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2001 | 481,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2002 | 285,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2003 | 351,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2004 | 486,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2005 | 470,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2006 | 738,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2007 | 350,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2008 | 191,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2009 | 337,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2010 | 355,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2011 | 164,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2012 | 104,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2013 | 38,000 gal | EIA, 2013b |
| Fuel combustion - Kerosene | 2014 | 31,000 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0752 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0752 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 135,000 btu / gal | USEPA, 2012b |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 12,800,757 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 11,328,144 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 404,904,545 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 11,153,585 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 15,581,232 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 14,446,745 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 17,254,250 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 16,117,235 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 24,461,307 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 26,705,329 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 90,338,516 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 670,599,500 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 753,323,259 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 590,599,871 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 574,563,554 scf | Gough, 2015 |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------------------|------|-------------------|--------------|
| Fuel combustion - Natural gas | 2005 | 598,687,914 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 37,594,411 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 34,750,643 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 49,134,995 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 48,392,669 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 45,067,145 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 45,356,930 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 88,541,570 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 144,028,716 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 129,854,475 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Ag Energy Use : Crop Production

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 10,417,602,964 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 9,363,212,249 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 7,609,909,198 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 8,216,087,574 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 11,345,339,172 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 10,314,905,851 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 12,179,580,007 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 13,184,612,024 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 13,947,988,133 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 16,064,865,269 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 17,582,960,308 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 11,756,737,511 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 14,886,681,872 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 13,630,333,858 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 13,269,721,984 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 10,962,619,113 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 14,905,840,685 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 12,908,638,422 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 12,237,547,821 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 11,288,300,934 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 10,650,707,420 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 10,679,691,693 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 11,229,416,593 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 10,969,057,509 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 10,105,567,412 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|--------------|------|-----------------|--------------|
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

► Sector = Ag Energy Use : Livestock

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 886,125,557 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1991 | 843,683,784 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1992 | 711,057,552 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1993 | 783,392,579 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1994 | 840,259,239 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1995 | 793,717,894 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1996 | 804,020,321 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1997 | 981,137,001 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1998 | 1,072,050,619 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 1999 | 1,459,040,219 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2000 | 1,651,776,815 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2001 | 1,475,854,804 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2002 | 1,670,700,524 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2003 | 1,451,458,012 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2004 | 1,360,694,990 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2005 | 1,240,896,645 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2006 | 1,277,404,945 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2007 | 1,497,088,502 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2008 | 1,441,971,940 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2009 | 1,378,185,852 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2010 | 1,272,892,676 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2011 | 1,395,278,526 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2012 | 1,543,976,779 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2013 | 1,561,694,101 scf | Gough, 2015 |
| Fuel combustion - Natural gas | 2014 | 1,472,221,595 scf | Gough, 2015 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 1.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.053 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.053 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 1.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 1.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013c |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013c |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013c |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013c |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013c |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013c |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2000 | 956 btu / scf | EIA, 2013c |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013c |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013c |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013c |
| Heat content | 2008 | 1,028 btu / scf | EIA, 2013c |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013c |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013c |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013c |
| Heat content | 2012 | 1,020 btu / scf | EIA, 2013c |
| Heat content | 2013 | 1,026 btu / scf | EIA, 2013c |
| Heat content | 2014 | 1,028 btu / scf | USEPA, 2012b |

IPCC category = 1A5 — Fuel Combustion Activities - Non-Specified

► Sector = Not Specified Military

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 1990 | 227,853,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1991 | 188,142,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1992 | 139,628,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1993 | 30,936,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1994 | 78,156,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1995 | 90,434,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1996 | 62,147,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1997 | 18,242,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1998 | 23,144,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 1999 | 7,082,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2000 | 6,994,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2001 | 28,356,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2002 | 47,538,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2003 | 48,503,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2004 | 53,198,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2005 | 9,710,000 gal | EIA, 2013b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|------------------------------|------|-------------------|--------------|
| Fuel combustion - Distillate | 2006 | 10,681,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2007 | 11,680,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2008 | 8,970,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2009 | 13,926,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2010 | 50,755,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2011 | 36,319,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2012 | 41,169,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2013 | 49,837,000 gal | EIA, 2013b |
| Fuel combustion - Distillate | 2014 | 114,483,000 gal | EIA, 2013b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2012 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2013 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CH4 emission | 2014 | 3.000E-06 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 2012 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.074 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.074 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2012 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2013 | 6.000E-07 g / btu | USEPA, 2012b |
| Fuel N2O emission | 2014 | 6.000E-07 g / btu | USEPA, 2012b |
| Heat content | 1990 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1996 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 138,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 138,000 btu / gal | USEPA, 2012b |

IPCC category = 1A5bi — Fuel Combustion Activities - Non-Specified - Mobile - Mobile (Aviation Component)

► Sector = Not Specified Military

Activity = Fuel combustion - Jet fuel

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|-----------------|----------------------------|-----------------------|
| Fuel combustion - Jet fuel | 1990 | 628,272,018 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1991 | 623,397,669 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1992 | 510,071,092 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1993 | 498,457,153 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1994 | 452,956,023 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1995 | 437,067,861 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1996 | 417,720,272 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1997 | 380,735,115 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1998 | 388,997,799 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1999 | 373,629,067 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2000 | 379,856,351 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2001 | 413,660,159 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2002 | 370,044,631 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2003 | 372,181,710 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2004 | 339,343,349 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2005 | 336,774,630 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2006 | 305,384,496 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2007 | 285,390,657 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2008 | 272,713,681 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2009 | 260,519,367 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2010 | 262,755,664 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2011 | 234,600,600 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2012 | 292,165,000 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2013 | 241,822,523 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2014 | 241,822,523 gal | Compilation, see text |
| Fuel CH4 emission | 1990 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1991 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1992 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1993 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1994 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1995 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1996 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1997 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1998 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1999 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2000 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2001 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2002 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2003 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2004 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2005 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2006 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2007 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2008 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2009 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2010 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2011 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2012 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2013 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2014 | 5.300E-07 g / btu | IPCC, 2006b |

Variables Used in the Emissions Estimation Equations

Values last updated on Wednesday, March 30, 2016

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CO2 emission | 1990 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1991 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1992 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1993 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1994 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1995 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1996 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1997 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1998 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 1999 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2000 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2001 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2002 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2003 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2004 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2005 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2006 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2007 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2008 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2009 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2010 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2011 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2012 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2013 | 0.0722 g / btu | USEPA, 2012b |
| Fuel CO2 emission | 2014 | 0.0722 g / btu | USEPA, 2012b |
| Fuel N2O emission | 1990 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1991 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1992 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1993 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1994 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1995 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1996 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1997 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1998 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1999 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2000 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2001 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2002 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2003 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2004 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2005 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2006 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2007 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2008 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2009 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2010 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2011 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2012 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2013 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2014 | 2.100E-06 g / btu | IPCC, 2006b |
| Heat content | 1990 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1991 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1992 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1993 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1994 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1995 | 135,000 btu / gal | USEPA, 2012b |

Variables Used in the Emissions Estimation Equations*Values last updated on Wednesday, March 30, 2016*

| | | | |
|--------------|------|-------------------|--------------|
| Heat content | 1996 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1997 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1998 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 1999 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2000 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2001 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2002 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2003 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2004 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2005 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2006 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2007 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2008 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2009 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2010 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2011 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2012 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2013 | 135,000 btu / gal | USEPA, 2012b |
| Heat content | 2014 | 135,000 btu / gal | USEPA, 2012b |